INDIAN SE NALES. LOGIC AND ATTURES.

AN EXPOSITION OF THE

·NYĀYA AND VAICESIKA SYSTEMS

BY

ARTHUR BERRIEDALE KEITH

D.C.L., D.Litt.

OF THE INNER TEMPLE, BARRISTER AT LAW, HECH'S PROFESSOR OF MANSKRIT AND COMPARATIVE PRILOCOGY AT THE UNIVERSITY OF FOLKEURGH, AUTHOR OF THE SAMKHYA SYSTEM', ETC

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PREFACE

WHILE the philosophy of the Ved intr is well known in Europe the Nyaya and Vuçeuka the Indian systems of logic and realism have attracted hardly a title of the interest due to them as able and earnest efforts to solve the problems of knowledge and being on the basis of reasoned argument. The systems are in leed orthodox and admit the authority of the sacred scriptures but they attack the problems of existence with human means and scripture serves for all practical purposes but to land sanctity to results which are achieved not only without its aid but often in very dubious harmony with its tenets.

The neglect of these schools in Europe is abundantly explained by the nature of the original sources. The contempt of Indian science for the uninitated has resulted in modes of expression unequalled for obscurity and difficulty, the original text books the Sutras present en Hess enigmas which I ave not one feels assured yet been solved and which in most cases will never yield their secrets. The works of the Nu like school of Bengal in their details frequently defy explanation and in translation are more obscure if possible than their originals. Hence, even historians of Indian philosophy like Professors F Max, Miller and P Deutsch have contented themselves with sketches which ignore entirely the serious and valuable thought of the schools. The result

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is gravely embarrassing for any serious study of Indian philosophy as a whole and for this reason I have deemed it desirable to attempt to set out the fundamental doctrines of the systems with due regard to their listory and their relations to Buddhist philosophy. The difficulty of the task is such that no absolutely certain results can be achieved the Sutrus are still presented in India in the light of centuries of development, and often with pafent divergand of the meaning of the text even by competent philosophic students and the originals of many Buddhist works are lost and we are compelled to rely on Tubetan versions. But it is clerify an indiappensable preliminary to further progress that some effort should be made to formulate the results attainable with the information now at our disposal

Considerations of space have rendered it necessary to omit all mere philological discussion and all treatment of points of minor philosophic interest. On the same ground no effort has been made to trace the vicissitudes of either system in China or Japan or to deal with either Buddhist or Jain logic save where they come into im mediate contact with the doctrines of the Nyaya and Varcewka.

I have given references to the original authorities for any statement of importance but I desire to express a more general debt to the works of \(^1\) Athalye S C Vidyabhusana, H Jacobi Ganganatha Jha Th di Steherbatskoi and L Suali. To my wife I am in lebted for advice and criticism

A REBRIEDALE KLITH

September 1919

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ARBREVIATIONS

AGWG Abhandlungen der königl Gesellschaft der Wissenschaften zu Göttingen

RI Bibliotheca Indica, Calcutta

Bhasapariccheda, ed and tra E Röer, BI, 1850. BP Brahma Sutra of Badarāvana, ed BI RS

BSS Bombay Sanskrit Series

Colebrooke Miscellaneous Essajs, ed E B Cowell, London 1873 Allgem Gesch. Allgemeine Geschichte der Philosophie, I 1-111. Deussen P

Leinzig 1906 S Garbe, R , Samk) ya. Die Samkhya Philosophie, Leipzig, 1894 (2nd ed ,

1917) GSAI Giornale della Società Asiatica Italiana

Journal of the American Ociental Society JAOS

JASB Journal of the Asiatic Society of Bengal new series

Journal of the Bombry Branch of the Royal Assatic Society JBRAS JRAS Journal of the Royal Asiatic Society

Khandanakhandakhadya, tra Ganganatha Jha (reprint from KKK Indian Thought)

Kiran wall of Udayana ed with Pracistapida, Behaves, 1885. Ku and 1897

hus. Kusum'in'ni of Udayana, ed and trs E B Cowell, Rf. 1861 MBh Mahibh trata.

MS Mimānsā Sutra of Jaimini, ed BI

Muller, F. Max. Six Systems The Six Systems of Indian Philosoph / London. 1899 Ny ivavatara of Siddhasena Divakara ed and tra. S. C. Vidya-

bhusana, Calcutta, 1909

Nyayabındu of Dharmakırtı, ed P Peterson BI 1890 NB

Nyavabindutika of Dharmottara ed u s NBT Nyayabhāsya of Vātsyāyana, ed Benares, 1896

NBh Nachrichten der könig! Gesellschaft der Wissenschaften zu NGWG Göttingen

Nyayakandali of Cridhara, ed Benares, 1895 NK

Nyayakoca by Bhimacarya Jhalkikar, BSS xlix, ed 9 1893. NKoca Nyāya Philosophy, Sadholal Lectures, by Ganganatha Jhu (an NLIndian Thought)

NM Nyayamanari of Jayanta, ed Benares, 1895

Avaya Sütra, ed and trs S C Vidyabhusana, SBH viii, 1909. NS ASM Ayayasıddhadtamanını of Janakin'tha (in The Pandit, new series)

Nyāyasara of Bhāsarvaj a, ed S. C Vidyābhusana, BI 1910 NV Nyaya arttika of Uddyotakara, ed BI 1887-1904

NVT Nyavauttikatätparyatika of Vacuspati Micra, ed Renavos. 1898

NVTP Nykyavärttikatätparvaparicuddbi of Udavana, ed. BI Oltramare, P L'histoire des sdées theosophiques dans l'Inde, vol i, Paris, 1907

PBh The Bhasya of Pracastapada, ed Benares, 1895

PMS Pariksamukhasutra of Manikya Nandin, ed Bl.

PMV Pariksamukhasutralaghuartti of Anantavirya ed Bl.

PP Prakaranapa cika of Calikanatha, ed Chowkhamba Sanskrit Series, 1903 4 PSPM The Prabhakara School of Purva Mimamsa, by Ganganatha

Jha, Allahabad, 1911

Castradipikā of Parthasārathi Micra, ed The Pandit

Clokavārttika of humārila, tre Ganeanātha Jhā, BI

Sitzungsberichte der königl preussischen Alademie der Wissenschaften zu Berlin Sugiura, Sadajiro, Headu Loa Hodu Loug as preserved in China and

Japan, Philadelphia, 1900 SBE Sacred Books of the East, Oxford

SRH Sacred Books of the Hindus, Alfababad

SBNT Six Buddhist Nyava Tracts in Sauskrit, ed Haraprasad

Shastra, BI 1910 Sarvadarçanàsanıgraha of Mādhava, ed Ānandāçrama Sanskrit SDS Series, no 51

SDS Saddareanasamuecava of Haribhadra, ed BI Saddarcanasamuccavatika of Gunabhadra, ed BI SDST

Siddhantamuktavall, ed with BP.

SM Saptapadarthi of Cavaditya, ed V S Ghate, Bombay, 1909 SP

Samkhya Sütra, ed Bf 22

Sarvasiddhāntasamgraha, attributed to Çankara, Madras 1909 SSS Suali, L . I tr Introdu. sone allo sindio della filosofia ii diana, Pavia, 1913 Jarkameta of Jazadica, ed Calcutta, 1880 TA

Tattvårthådhigama Sutra of Umasvati, ed BI, trs. II Jacol i, TAS ZDMG 1:

Tarkabhāsā of Keçava Miçra, ed S M Paranjape, Poona, 1894 TB.

TC Tattvacentamans of Gangeen ed BI

TK. Tarkahaumudi of Laugāksi Bhāshara, ed M N Dvivedi, BSS xxx11 1886.

TR. Tärkikarakså of Varada, ed Benares, 1903

Tarkasamgraha of Annam Bhatta, ed Y. V Athalye, BSS Iv, 1897 (preface by M R. Bodas) TSD Tarkssamgrahadipikā, ed u s

VOJ Vienna Oriental Journal

Vaicesika Stirm, ed BI , trs SBH vi 1911 VS. vsu

Vaicesikasütroj askāra of Cankara Miera, ed BI Inicesikasutravrtti of Javanaravana ed BI

Vidyabhusana S C , Med Log History of the Mediaeral School of Indian Logic, Calcutta, 1909

Yoga Sutra of Patanjali, ed BSS zivi, 1832

ZDMG Zeitschrift der Deutschen Morgenländisch en Gesellschaft

PART I

THE LITERATURE OF THE NYAYA AND VAIÇESIKA

CHAPTER I

THE ORIGIN AND DEVELOPMENT OF THE SYSTEMS

1 The Antecedents of Logic and the Atomic Theory

INDIA incurious even of her varied and chequered political history has neglected even more signally the history of her philosophical achievements Lyen in the period when discussions between the schools resulted in the production of sketches of the several systems such is those of Haribhadra and Madhava the expositions given attempt no historical treatment of the various systems, but treat them merch from the point of view of their relation to the favourite system of the author whether Jam or Vedanta The earliest works of the Nyaya and Vaicesika present us with definitely formed schools which presuppose much previous discussion and growth but it is only occasionally that a later commen tator like Vatsyayana assures us definitely that another school-doubtless an older one-gave the syllogism ten in place of the traditional five members, or mentions so much divergence of opinion as in the case of the forms

of inference, as to induce the behef that the variation of view did not merely arise after the production of the Sutra. We are reduced therefore to seek outside the schools in the Brahmanneal Bu ldhist and Jain literature for hints of the origin of the logic and atomic theory of the Nyaya and the Varçenka

On one point there can be no dispute, the Brahmanas and the Upanisads do not present us with anything which can be said to foreshadow these doctrines. The public controversy of the Upanisads may however be noted as a feature which favoured the growth of lone and sophistry, and apart from the great weight allowed to the Veda in general and the Upanisads in particular in the arguments of the two schools it may be pointed out that the doctrine of the place taken in perception by mind is foreshadowed in the Unanisads 2 whence also is derived in a revised form the Nyaya doctime of sleep.3 In even the Dharma Sutras which are the latest stratum of the true Vedic writings neither system finds mention and this is the more important in that Nyaya there occurs in its general sense of argument or conclusion and also in Apastamba in the specific sense of the principles of the Purva Mimansa school In it we have the result of reasoning addressed to the determination of the conflicting declarations of Vedic texts regarding the order and mode of performance, the nurpose and results of the sacrifice while many of the important sacrifices included in their course discussions by the priests on sacred topics (bra hmodya) 5 As astronoms geometry philology and other sciences arose in close connexion with the sacrificial ritual so we are entitled to regard the Maja as a develop ! ment of a tendency which is seen in operation first in

Bloo field Re anofthe Veda pp 16ff

the Mimansa school 1 But in the hands of the Pandits 2 who took it up logic was applied to a wider range of interests than the sacrifice, and developed for its own sake. Thus most easily is explained the fact that Nyava which remains to the end a characteristic term of the Miminsa is the specific appellation of the Nyava school. while the Buddhists retain it in the larger sense of inference

In the earlier grammatical literature Panini, Kātyāyana, and Patanjah know the meaning of Nyaya as conclusion, but show no trace of recognizing a Nyaya system 3 The great epic however gives us positive evidence of such a system apart from other references, the sage Narada is described as skilled in Nyaya able to distinguish unity and plurality conjunction and in herence, priority and posteriority deciding matters by means of proof, and a judge of the merits and demerits of a five-membered proposition? The mention of inherence shows plainly that the \aiccsika is also recognized, though its name does not occur and sophistry is denounced in several passages. But the mention of Nyaya here and in the Puranas is useless for purposes of diting, none of the references need be eather than the appearance of the schools though the omission of Kanāda's name is worth noting The Smrti of Yājña valkya also which mentions Nyaya with Mimausa as a science," is not earlier than the third century A D

More interest attaches to the term Anvikaki as a name

¹ Bodas, TS, pp 27-9 'Inference' occurs in TA 1 2 ¹ Jacobi, SAB 1911, p 732

Goldstucker (Funna, p. 157) holds otherwise of the two last, but without plausibility

Ilopkins, Great Epic of India, pp 97 ff SBH VIII xv ff

^{1 1 5. 3 5 1 1} Mbh 1 70 42 , xm 210 23 , Matsya P , 111 2 &c 7 , 3

would account for its sharp opposition to the Vedic science, and that at an early period it was applied also to sacred things and fusing with the Nyaya developed from the Mimansa produced the Nyaya as a logical school. This may account for the extent to which logic seems to have disengaged itself from the Mimansa

A final hint of the date of the schools is suggested by the fact that Caraka in his medical Samhita' gives a sketch of some of the Njaya principles not without variation in detail and of the Vajesuka categories in such a way as to indicate that he regarded the systems as supplementing each other. Unhappily however not only is Caraka's date uncertain but his work has suffered refashioning and the authenticity of the text cannot be admitted. Nor can any stress be laid on the variations from the Njaya school. 2 an unscientific exposition of this kind need reflect nothing more than the luck of knowledge of its author and sheds no light on the early history of the school.

The literature of Buddhism gives little aid the Buddhist doctrine of perception in its developed form has affinity with the Nyaya but no derivation suggests itself either follows a line of thought already foreshadowed in the Upanisads? The oil Pal texts 'uginore the names Nyaya or Vaiçestka. In the Brahmayalasutta we hear in lieu of them only of talks sophist and vimanse casuist and in the Udana talkikas appear as in the epic and Puranas. The silence is of importance still more so the fact that in the Katl avutthuppaharana which does not claim to a greater antiquity than Açoka's alleged Council about 255 B.c., we find no reference to either school and nothing more significant than the use of the terms patuma

^{1 8 21} n 1 48 ff ² SAB 1911 p 736 n 1 2 Rlys Dav ds *Buddh Psych* pp 63 ff 4 V dyabi sana *Med Log* pp 61 ff

proposition upanaya application of a reason' and niggaha humiliation' which later in Gautama's long are technical terms but which at this period have their more general sense It is in keeping with this that the Nyaya under the name Niti and the Vaicesika first appear in the Milindapanha but unhappily the date of that text is wholly uncertain as in its present form the work represents an elaborated version of a simpler original and references of an incidental kind such as this could easily be added 1 Of more precision is the Buddhist tradition which asserts that Vaicesika ad herents were alive at the time of the Buddhist Council of Kaniska which may be placed at the end of the first century AD But here again we have no assurance of the value of this tradition for all regarding Kaniskas Council if it were held is fabulous and confused

The Jams texts yield a little more Their tradition-preserved in a liste text the Atagyala in a possibly interpolated passage and in late prose versions attributes the Vargesika system to a Jun schismatic 644 years after Vardhamana Rohagutta of the Chaulu fumly whence the system is styled Chaluga. The summary of principles given is clearly Vargesika of the Kanada type nine substances seventeen qualities five forms of motion, particularity and inherence with however three grain however the date of the Augyala not to mention this passage is unknown but doubtless late and not the slightest finth can be put in the claim that the Vargesika was an offshoot of Jamism nor is any useful purpose served by endeavouring to find in Chiluga a corruption of

⁾ Of Wintern tz Gesch d Ind L t II : 139 ff

Journ, B ddh Tarl Soc 1 lff U1 V P pp. 83 ff 3 Weber Ind. Stud, Ivi S51 Leumann Ivii 116 91 SBE XLV

xxxvff Ui pp \$5 ff 6c ff

Aulükva. What is of importance is the question whether in the Jama system there is evidence of anything which could give rise to the Nyaya or Vuçesika systems The Jain system 1, in its view of knowledge, takes the peculiar view that direct knowledge (protyalsa) is that which the soul acquires without external aid such as the senses, it takes the form of direct knowledge of things beyond our perception (avadhi) of the minds of others (manahparyāya), and complete knowledge (kevala) Under in direct knowledge (parok-a) is included direct sense percention (mati) and that which is obtained by reasoning (cruti) In the Sthananga Sutra we find mention made of the usual four means of proof perception inference comparison, and verbal testimony and there are given certain classes of inference, but in view of the uncertain date of this text it is idle to claim priority for the Jain logic, nor, as it appears in such authors as Umasvāti 2 and Siddhasena Disakara,3 is there anything to suggest that logic was the original possession of the Jains The more characteristic doctrine of knowledge of that school 19 summed up in the doctrines of indefiniteness (madvadu) and aspects (naga) To the Jams everything is indefinite and changing in point of quality, permanent only in respect of substance and thus to make any true statement about it demands a qualification of anything we can say. In a sense it is or is not or is and is not or is inexpressible, or is or is not and is inexpressible, or both is and is not and is inexpressible' Similarly the Nayas are modes of re-arding reality from different points of view In all this, which is of dubious date and still more dubious value, it would be vain to find a model for the Nyava.

Vidyabhūsana Med Log , pp 3ff

^{*} Tarredreade juma surva, before earth century a. n., ZDMG Ix 288ff * Applyingting e 533 a. p

[&]quot; H I., Jhaveri, First Principles of Jain Fallowphy, pp 31 ff

16

The case is different with the atomic theory for in this case we do find a definite similarity between the atoms of the Vaicesika and those of the Jain In the Jain conception 1 however the atom has taste colour smell two kinds of touch and is a cause of sound though soundless and thus differs from the Vaicesika atom which has no connexion with sound and has one two three or four of the ordinary qualities according as it is air fire water or earth. The Jain atoms are thus quali tatively alike the Vaicesika not. In both cases the atom is thus a relatively complex conception as remarked ly Cankara in his refutation of the atomic theory 2 an I it is by no means easy to say that the Vaicesika conception must have been or even probably was derived from the Jam the fact that the Jam school retained tle theory without any substantial development is merely one of many proofs of the metaphysical larren ness of the school Nor is it difficult apart from Jain influence to believe in the development of the doctrine in the school from the natural aim to find something abiding in the flux of phenomena which Bud lhists asserted while the Aupanisada doctume offered a per manent abiding reality in the absolute but only at the cost of denying the reality of the finite multitude There was room therefore for a solution which would attain a reality not transcendental as in the case of the Unanisade but lying at the basis of the real though momentary or temporary phenomena of the world That this was the line of reasoning which led to the acceptance of the atomic theory appears from the earnestness with which the Ayiyi Sutra attacks the Buddhist doctrine that there was no substance lehind the qualities no whole beside the parts The

¹ J L. Ja no Outl nes of Ja nism p 90 SBF xlv 198 209 210

^{*} On BS i 2 15

acceptance of such views led to the disappearance of all solidity in existence and the atomic theory makes good this lack by affording a real basis for the substance we see When it is investigated it does not reduce itself as clumed by the Buddhists to its constituents or qualities but is ultimately a congeries of atoms which are real but in themselves imperceptible.

There remains however, the possibility of Greek influence on India in the case of this doctrine. It must be admitted that it appears in India at a late date certainly no proof of it exists until India had been in contact with the Greek kingdom of Bactria and the Greek influences which came in with the occupation of territory on the north west by princes of Greek culture In Greece the doctrine was not merely one of a small school the adoption of it by the Epicureans raised it into a widespread belief and it would be irrational to deny that it might easily have been conveyed to India just as Greek astronomy and astrology unquestionably were The nature of such borrowings is often misunder stood, the mere adoption without alteration of an opinion would be wholly un Indian though we know that Greek astronomy was borrowed we find it was recast in an entirely un Greek fashion 2 and so changed and developed were Greek Mathematics that the borrow ing has often been ignored. It is no argument against borrowing then that the Greek doctrine that the secondary qualities were not inherent in the atoms was not accepted and that the motion of the atoms was

On the general appearance of Jain doctrines as influenced by Appear to rever Ell students, flower for 1824 pp. 1016. A printification recogniting the self as well as the five elements appears in the Save-Freeze (SBE 2412 xxxxx), but this is very far from the Appear Ell and Save-Freeze (SBE 2412 xxxxx), but this is very far from the Appear Ell Confedence of the Printing Save Transaction of the Save Transactio

Kaye Ind on Mathematics, pp 8 ff

ascriled as early as Piaçastapida at least to a creator. On the other hand the most peculiar part of the Indian doctrine which fin is that the smallest thing; lossessing, magnitude must be made up of three double atoms and which has therefore been claimed is a disproving Greek origin is no original part of the system. The problem of origin therefore must remain open for borrowing the chief evidence apart from the obvious similarity of the doctrines in their conception of the unit atom and its imprereptibility is the sudden appearance of the dogma in Indian thought at a periol when Greek art had profoundly influenced the art of India and In had long been in contact with the western world, in which the doctrine had passed into a common and popular as optosed to an esoteric doctrine.

Of logical doctrine in its early stages there is no reason whatever to suspect a Greek origin the syllogism of Gautama and Kanada alike is obviously of natural growth but of stunted development It is with Dignaga only that the full doctrine of invariable concomitance as the basis of inference in heu of leasoning by analogy appears and it is not unreasonable to hazard the sug gestion that in this case again Greek influence may have been at work. But the possibility of a natural development is not excluded only it must be remembered that perhaps two centuries before Dignaga Aryadeva one of the great figures of Mahayana Bud lhism uses terms displaying knowledge of Greek astrology and that by A.D 400 the probable date of Dignaga spiritual inter course between east and west was obviously easy Nor 18 it without interest to note that some evidence has been adduced of Aristotelian influence on the dramatic theory of India as preserved in the Blarata Cistra

¹ Max Müller Sıx Systes s p. 584

² M Lindenau, Fests Ir ft E W nd sch pp. 38-49 On Greek unflence on Ind in the ghtef alo S Levi Mah w na. trata dairs is 17 18

substances, earth, water, fire, air, ether, space, and time, Book III treats of the objects of sense, and establishes the existence of the self and the mind, dealing also with the theory of inference, Book IV contains the atomic theory, and discusses the visibility of quality and the nature of body. Book V deals with motion, Book VI with the ment of receiving gifts and the duties of the four stages of life, Book VII mixes up quality, the atomic theory, the self, and inherence, Books VIII and IX are mainly concerned with perception and inference and Book X deals with causality, among other topics. V Of the personalities of Gautama and Kanada we know

✓ Of the personalities of Gautama and Kanada we know absolutely nothing. The personal name of the former Aksapada has the appearance of being a nickname such as early India seems to have loved, 'one whose eyes are directed at his feet', but it is variously interpreted? and embellished with idle legends Kanada, alias Kanabhui or Kanabhuksa, denotes 'atom (of grain) eater', and would naturally be interpreted as a nickname due to his theory , Cridhara, however reports it as due to his habit of living on grains fallen on the road like a pigeon To Praçastapada we owe the knowledge that his centile name was Kacyapa, and that Civa revealed in onl (ulūka) shape the system to him as a reward for austerity, whence the name Aulukya which the Nyayavarttika alread, applies to it The worthless Purana tradition proceeds to invent Aksapada, Kapada and Ulüka as sons of Vyasa, while ingenuity, ancient and modern, has invented equally worthless identifications with the Gautama of the Gautama Dharma Castra and

¹ Garbe, Bes rage z und At it rgesch p. 8%

² SBH VIII v. v., NL., pp 8 10
2 That Kanada - crow-eater - owi (SBF VLV xxxviy) is an idle

^{*} NK., p. 2 * pp. 200 329 * p. 168, Kumarila, Tantrardritha, i 1 4, cf Acraghesa (U., p 41).

other members of that great clan, based on nothing more secure than the identity of the family name. In truth we are left entirely to internal evidence and the history of the texts to discove their date.

The first point which may be treated as certain is that both texts were known to Vatayayana who, as will be seen lived before Digmaga, probably in the second half of the fourth century v. D. He commented on the Nyaya. Satra, and used the Varcesika categories he quotes aphorisms found in Kanada's Sutra 1 and appears to have recognized it as in some degree a kindred school This fact renders specially difficult the second question which presents it elf that of the priority of one or other of the two texts. It must be recognized at once that there is no possibility of treating the two systems as having grown up apart without inutual influence. In favour of the priority of Gautama's work some evidence can be adduced, the Vaiçesika Sutra marks in treating of inference a definite attempt to enumerate the real relations which afford the ground of and justify the inference while no attempt of this sort is made in Gautama again while the Vargevika docture of fallacies is different from and simpler than Gautamas Kanada uses without explanation the term anaikantika" inde terminate' as the description of a fallacy while Gautama piece of evidence, Gautama 3 in proving the self refers to mental phenomena alone as signs of its existence while the Vargesika mentions also the physical signs of expiration inspiration winking the vital processes the movement of mind and the activities of the other sense

¹ in 1 1g in Comm on NS ii 2 34 iv 1 6.11 Comm on ii 1 33.

² t 1 to, NS iii 2 4 \a-arjuna Deva, and Harivarman (Ui

organs The last case seems rather to indicate that the Vaiçesika is the older standing as it does on a less philosophical standpoint. This conclusion is supported by the fact that Gautama deals carefully with other points which have less effective treatment in the Vaicesika, such as the eternity of sound the nature of the self the process of inference and fallacies generally, and the reference to a pratitantra siddhanta must be understood—though currously enough in his comment on this passage Vatsyayana illustrates the relation by the Samkhya and Yoga-as an allusion to the Vaicesika which Vatavayana elsewhere accepts in this relation Gautama 2 refers also to the question of the action of a creator (192ara) though he leaves the main question unsolved It is difficult therefore to evide the impres sion that Kanada is the older of the two and that the failure of the Nyaya to accept lus classification of the grounds of inference was not due to its being a later product but to its being a part of the Vaicesika system which the Nyaya rejected The great improvement in the order of the Ayaya Sutra is also symptomatic of

Is later date for the redaction of that system. Further support for this yeav as well as some vague indication of the period of redaction of the Nyaya may be derived from the patent fact of the polemic curried on in the school against Buddhist doctimes. The most important point in this legard is whether the Buddhist views attacked are those of the inhibit Madhyanuka school or the idealist Yogucara school the former of which is connected with the name of Nagarjuna, who has been assigned to the third century v. D. as his commorant, Aryadeva mentions the days of the wick, an

¹ The term out gray (pudded a) is used in a inch more that and a nee in the Varges ka Doussen Allem Cool I in SSI 2C2 2 (c. 1 1) 21

^{. 16 1 13 21}

annovation probably of that period while the latter seems to have been developed in the unddle of the fourth century by Asauga and Vasubundhu 1 Gautama 2 clearly refers to the view of Nagariuna and Arvadeva that the effect before production is neither existent non existent or both, to the doctrine of the former that all things have no real existence possessing merely an illusory interdependence, to the assertion that a substance has no reality independent of its qualities nor the whole apart from its parts to the denial of the doctrine of atoms, and to the belief that means of proof and their objects are no more than a dream or a mirage as well as to less distinctive Bu ldhist doctrines as the momentary character of existence and the defilements (klega) It is a much more doubtful theory that one passage of the Sutra is directed against the Yogacara doctrine which accepted ideas alone as real for the contents on the whole better fit the Madhy amikas and the most striking evidence in favour of the other view the parallelism between the wording of one aphorism and a passage in the Lankavatara Sutra, is not convincing because the Sutra in its present form is not earlier than the sixth century VD as it prophesies the Hun rule of that period' and because the doctrine enunciated there can be interpreted equally well as a Mulliyamika principle namely that on investigation of any object no substance is found outside its parts or qualities

¹ Jacobi JAOS xxxi 1 ff Ke il JPAS 1314 pt 1090 ff Cf iv 1 48 with Midden Au 5 re vit "0, Fre p. 16 iv 1 40

⁻ or iv 4 a visit a tangon no se vii 'U, ryr p. 16 iv 1 40 Sura x 6 iv 1 34 3 lyr pp. (1 "1)
'Iv 2 15 nd 51 ng (Mun S tra vii 34 Fra p. 100 iii 2 11 iv 1 (4 That hagain na knew NS Ui p S) is unlikely

^{* \$111} vill 133 \$5, 1v 2 26, * W 1 terrate Greek d (nd Le" 11 i _45

[&]quot; In the sense it appears in SPS p. 12 cere neo ply as A a select to (a) AKA 1 40

'ignorance', and pralyagātman, 'individual self' is reminiscent of the Bruhma Sātra. Gautama is familiar with the terminology of the Bruhma Sātra. Jand also with that of the Mīmānsā, which is probably not later than the Brahma Sātra. But to claim that the Nyāya or Vaiyesika was redacted later than the other two Sātras is wholly impracticable. It is more interesting to note that an early exponent of the Mīmānsā seems to have been familiar with the Nyāya terminology. But his date is wholly uncertain, though the fact is important as a sign that the Nyāya early influenced very powerfully the Mīmānsā, and received stimulus from it in return.

3 Pracastapāda, Vātsyāyana, and Uddyotakara

The Bhāya of Prnçastapāda is undoubtedly the most important work of the Vaiçesika school. It is no commentary in the strictest sense of the term, the aphorisms of Kanāda are not cited an extenso or by catchword as normal in commentaries, the order of the Sutra is not followed, and careful research reveals at least forty aphorisms which have no place in the Bhāsya apart from the additions which it makes to the doctrine. The arrangument of the inaterial is that which is adopted

 $^{^4}$ Cf NS to 2 14 16 with B5 to 1 24, for Miniansk see NS, to 1 61-7

³ Cf. Colorubla cops., p. 10, the Vittskara is usually identified with Upsarane, but see JAOS xxxl 17 where Boldsyna is suggested, Keith, JRAS, 1916, p. 370 Arguments in favour of Gautama's date as the folirth century is con the secore of Upsarana leding a commencary of a Nanda need not seriously is returned. Specialsions (e.g. Bonadoibar Comm YZ, pp. 161 ft.; Deussen, Alpen. Geek., I. In 385) as to an original Ayaya Stira consusting of Book I, or less, letto no definite desuit, but the suggestion that Vaksyayana is responsible for remodelling the Siltra is wholly an assproted by evidence.

ed Vindhyecart Prasada Dvicedin, Benares, 1895, with Cridhara's comm., in part only with Udavana's comm., Benares, 1885-97

stapida's indebtedness to Digmaga, a Buddhist logician whose most probable date is about 400 v. p. and it would record well enough with all probability, if Pragastapada were referred to the fifth century. Between him and Calikara appears to hive intervened a Rāvandbāgaga,' if we can trust an assertion of the commentator Cricaiana on Cankart's Bhasya but of this work, which my hive been a comment on Kanada on on Pragastapāda, we know no more than that in his comment on the Kiranā calipnikāça Padmunābha asserts that it was used in Udayana's Kiranatali

Of Vatsvayana we know, if possible, less than of Praca stapada His commentary, Nyayabhāsya," on the Nyāya Sutra is not, like the Bhasya of Pricastanada, an epochmaking text it is based closely upon the Sutra itself, upon which it marks no decided advance. It is clear that Vatsyayana knew the categories of the Vaicesika, of which indeed, he makes use showing already the tendency of the systems to syncietism But his logical doctrine is still meagre inference is a mysterious thing really argument from analogy, while Piacastapada has a fully developed theory of myanable concomitance as the basis of inference. It is inconceivable that conservatism 3 would have induced any writer to ignore the new advance made by Pracastapada, and this normal conclusion receives ample confirmation from the fact that Vatsvayana was severely handled by the Buddhist logician Dignaca, who in all probability was the source

¹ Ibid, 1 12n. That Praya tapada had predicessors is obvious and it is from one of these doubtless that Dignaga borrows the passages, etted in Mr. 5 m, x 170 171 from his Prayabasamuscope.

ed Benares 1896, BI 1861 5, Wind sels, Leber das \u00edgapth e.g., Leij 12g, 1883, ptr. Gunganathi Jh., Indian Thought in There are clear traces of an earlier commentary, see trs is 450. There is no evidence of any corruption of his text

³ Jacoba, NGW 6 1901 p. 482

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of Praçastapada's doctrine It is reasonably safe, there fore to assign Vatsyayana to a period before A D 400 Of his personality we know nothing save that his name

was Paksilasvamin

The attacks of Dignaga were replied to ly Uddyo takara the illustrator whose family nune was Bha radvan but whose personal name we do not know He himself is silent as to the name of the author a unst whom his polemic is directed but the omission is sun plied by his commentator Vacaspati Micra and his state ment is amply confirme! by what we know of the literary history of India. His date can be determined within fairly close limits 1 he cites a Vadavidhi and Vadavi dhanatika which can with certainty be identified with the Vadanyan and Vadanyanatika of the Buddhist lorerans Dharmakirti (about \ D 630) and Vinitadev i respectively and in turn is referred to in fairly clear terms by Dharmakirti in his Nyayabindu in which a system of logic based on Dignaga is set out. The date thus suggested is confirmed by the fact that Subandhu in his Vasavadatta refers to his establishment of the Nyaya evidently against the Buddhist doctrines and Subandhus work doubtless fell in the seventh century A reference to Crughna in his Nyay warttik v2 even lends colour to the view that he hyed at Thanesar and possibly enjoyed the patronage of the great Harsa (608-48) though tradition places his birthplace at Padmavati, now Narwar in Malwa which a century later was certainly celebrated as a school of logic 3

¹ Vidyabl usana JRAS 1914 pp 601-6 Keith pp 110° 1103 e ntra Gar ganatha Ji a NS 1 461 n

ed BI Calcutta, 1904 trs Ganganatha Jl a or cd

About A p 600 was wr then Candra s Dacapadarthac Jetra a Va cesika treat se based on Pracastapada preserved only in a Chinese version of a p 648 and w thout Influence on the school in Ind a (ed v trans HU)

CHAPTER II

THE SYNCRETISM OF THE SCHOOLS

 Vacaspati Micra, Bhasarvajna, Udayana and Çridhara

For practically two centuries after Uddy otakara there is no trace of the literature of the Nyaya until about the middle of the mith century, there appears the Nyana varttikatatnaryatika' of Vacaspati Micra a commen tary on Uddyotakara's treatise, the Vyayasucimbandha an index to the Sutra of Gautama and the Nuavasutrod dhara, a brief treatise similar in character Vacaspati was a man of remarkable versatility for he composed commentaries of the first order on Samkhva Yoga Vedanta and Mimansa texts He lived under a king Nrga and was a Brahman of Mithila, his Vyayasucini bandha was composed in the year 898 as he tells us himself The only doubt therefore can be as to the cra to which this year refers It would be necessary to refer it to the Çaka epoch and equate it with A D 976 if we were compelled to accept the tradition that the Rāzavaritika to which he alludes in his Samkhvatat trakaumuda was a work of or dedicated to Bhoja of Dhara (1018-60), though even then difficulties would arise But the tradition of this authorship is extremely uncertain, and it is certain that the author of the Apphasiddh, a Buddhist logical tract freely uses Vaca

¹ ed Gangadhara Çastri Tulanga Benares 1899

spati while ignoring Udayana of whom we have the date In 984 The year 898 may therefore reasonably be re ferred to the Vikrama era and be equated with A D 841 in which case we must assume that Vacaspati wrote his commentary on Cankara's Bhasya on the Vedanta Sutra some years later as Cankara probably flourished in the first quarter of the ninth century 1

Possibly in the earlier part of the tenth century may be placed Bhasarvajña whose Ayayasara? is a brief compendium of the Nyaya in two chapters It shows however while generally agreeing with Gautama and his commentators independence of view and Buddhist influence Thus the old division of sixteen categories which the Buddhists rejected confining themselves to the topics of the means of proof and knowledge alone is set uside for a division of the whole subject into con sideration of perception inference and verbal testimony as means of proof though the greater part of Gautama's logical and dialectical categories are dealt with in con junction with the question of inference More important is the rejection of comparison as a separate means of proof it is probable that here Vaicesika influence is visible since the school rejected it in toto and Udayana who defends it makes it clear that its part in know ledge is reduced to ascertainment of the direct signification of words without regard to the realities signified Agran Bhasary ama shows a marked Carva influence he

¹ See Woods Loga Satra pp xx xx : Lett JPAS 1908 pp 5°3 ff s ed BI Cal tta 1910 with Javasinla Suris & Syntatoarja p kd

⁽fourteenth cent wy) Cf Hall Ebl og Index p '6

SSS v 33 recogn res a Vances ha sel ool with three means of proof and so also a Nyaya v 5) Unhappily tle attribution of the text to Cankara is not certa a indeed probably wrong The 21 fold d v a on of pain (pp 31 35) seems to be borrowed by SP \$61 bft of NN p 2 TB p 91 the work is freely used in TR and Kir p 43 cites a Bh leans who may be il e Bhusanakara freely cited in TR.

goes so far as to style the system he expounds a Caiva system and promises the earnest student who practises concentration the vision of the god himself — His work therefore may be assigned with some plausibility to Kashmir, where Caiva belief was always strong. The precise date is possibly indicated if we can believe that the Nyayabhusana to which the Buddhist writer Ratna kirti in the tenth century refers is the commentary of that name on the Ayayasara, but the evidence is dis puted The work is however the subject of a commen tary probably written in A D 1252 it is cited by Madhava and it appears established as an authority in Gunaratna a commentary on the Saddar canasamuccuya of Hambhadra, and is, therefore not later than the twelfth century But it stands somewhat apart from the main stream of Nyaya, and it is certainly improbable that it

could have been composed after Gangeças work
Of far greater importance both for the Nyāya and the Valcesika is Udayana whose date after many vicissi tudes of opinion is definitely fixed at A D 984 by his own statement in the Laksanavali. He wrote a com mentary on Pracastapidas Bhāsya the Airanavali an l one on Vacaspati Micra's commentary on Uddyotakara the Ayayarattikatatpuryapariçaddhi 1 much more famous is his Austmanyati 2 mich is the classic exposition of the proof of the existence of God conducted from the point of view of the Nyaya system but accepting so far as in accordance with that system the view of the Vaicesika. The same theme is sustained in a polemic

SBNT p 11 the elitor (p. 5) denies the reference

² p. 01 2 heith JRAS, 1908, pp 5°3 ff Stall Intr pp 61 6° Part of the X rendred and the Lationarcal are included in the Benares ed of Pracastapada, 1885-9° A Lational at 1 (not the Lationarcal) is cited in TP, p 1 9 ed BI, Calcutta 1911

ed BI Calcutta 1864

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against the atheism of the Buddhists and the Jains in the Atmatattaviveka on Bauddhadhikkara and to Udayana doubtless belongs the credit of making theism a principal tenet of the school though we have no reason to suppose him the inventor of the doctrine. On the first three of these works we have among others commen taries by Vardhamana son of the great logician Gangega and all his treatises and minor works were busily commented on in the Nuddea school. In him the tendency of the two schools to merge is strongly marked but he does not attempt a formal synthesis and cannot be deemed strictly a syncretist author.

There is much in common between him and Cridhaia who wrote as he tells us in A D 991 his commentary Ay mal andals 2 on Pracastapada s Bhasys and who appears to cite with disapproval an opinion of Udavana Both recognize non existence as a category by itself as opposed to the positive categories both accept the existence of God and both support it by arguments which have not a little in common let a third commentator on Pracastapada may be ascribed to this period if we trust the record of Rajacekhara that Vyomaciva s Vyomavati came first in the order of comments followed by the Avayalandalı the Airanavalı and the Lilavati of Cit atsacarya. It must be admitted that the order of the Nyayakandalı and haranavalı seems wrongly stated but that Vyomaçıva preceded Udayana 19 stated by Vardl 1 mana s It is much more doubtful if he is to be identified with Civaditya author of the syncretist Siptapad irthi especially as he recognized three means of proof as against Civaditya s two

¹ ed BI

[†] ed Benares 1895,

Candrakanta Kusmaanjali p 19
Peterson Report for 1894 6 p 272; cf Gunaratna GSAI xx 64
where no order is given and the name is Vyoma anti

⁴ Kir p. 114 n 3.

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Of doubtful date is Jayanta Bhatta author of an exposition of the Sutra, the Nyayamanyari, and Nyaya-kalikā whom Gañgeça mentions as one of the old Nyaya-school, like Bhasari ajūa he appears to have been a native of Kashmir He cites Vacaspati and is cited by Deva Suri (ap 1688-1169)

2 Gangeça and the Auddea School

Probably within two centuries from Udayana and Civadity a there flourished the famous Gangeca or Gan gecvara, the author of the Tattracintamani' in which the logic of the Nyaya attains its final shape A native according to tradition of Eastern Bengal he must have lived after Udayana whose proof of the existence of God has plainly influenced his treatment of the inference of God and after Cividitya and Harsa, whom he cites On the other hand one of his commentators Javadeva is the author of a work the Pratyak suloka of which a manu script bears the apparent date of Laksmanasena epoch 159 or probably A D 1278 Jayadeva is also the author of the Prasannaraghava a drama of no great ment and it is improbable that his date is later than A.D. 1200, so that as Javadeva studied under an uncle of his Harimicra, it is not improbable that Gangeca may be referred without great risk of error to AD 1150 1200 treatise follows the model hitherto only seen in Bhasar vaina of an independent treatise on the Niava in which the dialectical portion which forms the main part of the

¹ ed, Benares, 1895 See Keith Aarma M'milst, pp. 15 16

ed, BI , Calentta 1808 1900 of 1 O Catal. pp. 611-38.

Mitra Vores v 209 800 Candrakanta, Kunomoljoli pp. 22 ff Vindhyequar Praska TR, pp. 21-4 whose dating is probably wrong resting on the assumption that Bi agiratha Danktura (a) to in a n 15of) was a direct pupil of Jayadera, which is not necessarily the case. His drama to before a In 18-25.

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Stitra is made to yield the place of honour to the systematic treatment in four books of the four means of proof, under inference being included a special treatise on the inference of God. Thus the doctrine of the theory of knowledge is presented in a definitive form freed from intermixture with the inseclang of contents of the Sutra and placed in a position to confiont the attacks of the Buddhists and the Juna. So well done also is the task that it proved the list work of outstanding ment in the school those who followed abandoned the study of the Sutra and the commentaries to devote them solves to the minute discussion of the points which were early raised is to the interpretation of the views of Gangeea and the correctness of his opinions.

The tradition of the Talliacini imam was curried on by Vardhamana the son of Grugega who it trainion ascules to Mithila and who wrote a commentary on lis fathers work as well as dissentations on other topics and comments on Udayana a three mun treatises. Not much later presumably was Harimiera whose nephew Jayadevas Aloka is a comment on the Tuttiveantemania A pupil of Jayadeva was Rucidatta, the author of the Kusuma yaliprahacimaharanda a commentary on Vai dhamana's comment on the Kusuma yali and other works?

There follows then a clear break in the tradition a ninch legend seeks to fill up by assigning Jayadeta as

¹ Lasts of the works of the members of it e school are given in Autrecht's Catalogue Catalogures 1 i. . It s comm. Nydwynysddyni Andlide on Udayana s Apigerarifikathigangparpadhi fresh'g gives ha father s views as opposed to Udayana: He also wrote an independent comm on the Sutra, Ind. and Pargh vi. 27 "98"

² The assumpt on to h m of a commentary on a work of Raghudeva (Catalogue i 5°8) as an error if Jayadeva a date is as taken above

^{*} Candrakants Kummana, pp. 21ff Vindhyeçvari Prasada, PBI (1885) pp 30 ff Bolas TS pp 44 ff S al Int pp 81 4 Keith

a contemporary of Vasudeva Sarvabhauma author of the Tattracent imanipullya, an exposition of Gangeca who may be regarded as the first of the Nuddea (Nava dyna) school of lower Beneral Vasudeva had four famous pupils Cartanya the Vasnava saint and reformer Krenananda a great authority on Tintric rites Rachu nandana the renowned lawyer and Raghunatha the greatest logician after Gangeça. The commentary of the last on the Tattement mant covers the first two books only, thus dealing with the really philosophical parts of the system In addition to the Didhita Raghu nutha was author of Padutlakhandana 1 or criticism of the Vaicesika tenets and other works. He had as purel Mathuranatha a commentator of productous fertility both on his master's work and on the Tattemen timan itself findition makes him a teacher of Right day and if so he was a contemporary of Harriama Tarkalamkan who was certainly the preceptor both of Rashudeva and of Gadadhara to all three authors the school was indebted for many works based on Gangeen and Raghunatha exhibiting a vast mass of perverted incentity worths of the most flourishing days of mediaeval scholasticism. As Cartanya's dates are known we can safely assign the period of Vasudevas influence to the beginning of the sixteenth century and with this accords the fact that Mathuranatha is held to live been a contemporary of Jacadica author of a commentary on the Dilhiti who certainly lived about A D 1600 On this work of Jagadica a comment was composed by Cankara Micra who was a pupil of Raghu

Bottom Unit Agr. 11. 3, 4 Ambleys and Trais la (Khawkonskilour Prop 4 5) as it shat a 185, 6 of 16 Khawkonskilour Roberts Agree 1 of 16 Khawkonskilour Roberts Agree 1 of 16 Khawkonskilour Roberts Agree 1 of 16 miles and 16 miles 1 for 16 contradicts the result of 16 kilour Roberts 1 for 16 kil

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deva but who is much more famous as the author of the Upaskara a complete commentary on the Varcesila Sutra 1 the first as yet available for Pracastapadas Bhasta is a restatement rather than commentary The work is however far removed from the original which it interprets often in a manner obviously impossible of acceptance

The reversion to the Sutra as a source of guidance scen in Cankara Micra who asserts his independence in his work has a curious contemporary parallel in the action of Vievanatha author of the syncretist work the Blasaparicched i in writing a formal commentary to the Sutra of Gautama 2 The mass of comment had at last at seems, weared the authors, and induced their to eturn to more original sources of knowledge

3 The Syncretist School

The fullest development of the tendency to syncretism in the schools is seen in the work of Civadity's who point school though it may safely be assumed that he was not the first thus to amulgamate the systems in exposition The Saptapudarthis is based on the Vaicesika system in its arrangement an I treatment following the order indicated in the fourth aplorism of Kanadas Sutra he enumerates the categories and their subdivisions explains the purpose of the enumeration and

1909, trans A Winter ZDMG I

and BI Calcutta, 1861 with a Vierti by Jayanarayana a recent commentary 19 that of Candrakanta Calcutta 1887 An ed tion ly Gangadhara (1868) purports to be based on a Bharadeaparth b t a clearly unauthentic Faddegon pp. 34 40

¹ Anotl er commentary Bhispacandra on Vatsvayana and the Sitra las been found In lan The ght v 379 It is by Ragi fitiams. ed Ramacastri Tailanga Benares 1893 V S Glate Bombay

the nature of supreme felicity which constitutes the end and then gives in detail the exposition of the matter set out in the enumeration On the other hand, he intro duces the substance of the Nyaya logic which is included under the quality cognition though he does not expressly set out the Nyaya categories His date is uncertain, he is known to Gauseca,1 and unlike Udayana who treats non existence as a category opposed in a sense to the six of existence he makes it i seventh citegory This points to a date ifter Udayan : On the other hand if, as suggested by the colophon of one manuscript-not a strong piece of cyrdence he is identical with Vyomaciva author of a comment on Praçastapada he is probably anterior to Udayana who in one place cites a view of a teacher whom Vardhamana identifies with Vomaciva and Rajacekhara mentions Vyomaciva's commentary as prior to Gridharas and Udayanas But identification with Vyomicua rests on too slight a basis for serious argument He wrote also the Laksanamala On the Saptapadarthi there are many commentaries of which may be mentioned those of Jinavardhana Suri (c A D 1415) Madhava Sarasvati (before A D 1523) and Cesa nanta (before A D 1608)

Nor less uncertain is the date of heçava Miçra author of the Tarkubhava. His work follows the order of the Najaya school but he shows the full influence of the Vatçesika enumerates its categories and is influenced by its doctrine of causation and perception. Moreover his logic is on the same plane as that of Gançeça and he cites Udayana. On the other hand his commentator Cinna Bhaţtia wrote under Harihara brother of Bukka I of Jugayangaru in the first half of the fourteenth century.

¹ TC i. S., N.S.M., p. 9 above, p. 33 2 ed S. M. Paranjape, Poona 1894 ("nd ed 1909) traus. GaTgA natha Jhā, I id on Thought, in

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and therefore Keçava must fall not later than A D 1300 possibly earlier. Of commentaries there are those of Govardhaua whose brother wrote in A D 1578 Gauri kanta und Madhavadeva (before A D 1681).

More recent doubtless is the Turkalaumudi. of Laugaku Bhaskara which is a clear and clegant exposition of the spiretist school, following the Bhasya of Pragastapada The author was son of Vudgala and grandson of the poet Rudra and the only hints we have of his place and time are the facts that he refers to Ben use and to a philosopher Culapam Micra who con cervably may be identified with Canhara Migra the commentator on the Futgesta Sudra. The similarity of his style and manner of treatment to that of Annain Bhatta and Jagadiça render it reasonable to suppose that he was of approximately the same period. He wrote also on the Vatgesta and on Minansa.

Jagadiça is of more certain period a pupil of his was alive in A D 1649 and he was pupil of Bhavananda father of Vidyanivasa and grundfather of Vidyanivasa and grundfather of Vidyanivasa and grundfather of Vidyanivasa and about 1600 He was one of the most industrious of the Nuddea school, and his Tathkawita* is marked by an innovation in arrangement while he mentions cognition as a quality of the self under the critegory of quality, he isseries its treatment at large for the end of his treatise thus restoring the topic to a position more in keeping with its true importance. Vigyanatha was a younger contemporary his commentary on the Agaya Sudra was composed in A D 1634. His syncietie treatise is the Bhasiparice leaf a m which in 168. Leaf Ni D ved Bot ley like trans. It lielized 2DMG In

[&]quot;63-802 | 1 of Calcutta 1880 trats L Sual Pavia 1908.

t ed and trats E Reer Calcutta 18:0 G Slasti Bakre Bombay 1003 For date see Haraprasad Slastri JASE 1910 pp 811 ff

memorial verses of the most prosaic kind he summarizes the topics of the system, the arrangement is an exposition of the categories and their subdivisions followed by an account of their analogies and differences and then an elaborate description of substance and quality. Cognition is freated of as a quality of substance but also by way of supplement in a later part of the text. The verses are explained in the authors own commentary the Suddhardamuktuwit. Both works are distinguished by the comparative clearness of their exposition which is based on Raghunātha Çiromanı and have formed the subject of many comments.

Last but not least is Annam Bhatta whose name like that of his father Tirumala indicates his connexion with the Telugu country His date is uncertain he seems to have used Raghunatha's Didhits and tradition attributes to him knowledge of Gadadhara whence his date may fairly be placed not before A D 1600 He wrote also on grammar on Vedanta of which his father was a teacher and on Mimansa His syncretist work is the short Iarkasamgraka which in eighty one pura graphs sums up the system in the same order as the work of Laugaksi Bhaskara. More important is his own commentary the Tarkas unaral adental, which discusses the definitions given in the text amplifies the statement, and occasionally corrects it a sign that it was composed after the issue of the text Important commentaries are Govardhan is A jayabathini, whose author was apparently different from the commentator on the Turkablas Krana Dhuriatia Siddhantacundro dang the Adakanthe of Adakantha who died v D 1840 and his son Lak-ministrika's super-commentary Bhas Larodayā 3

¹ of X V Atlaly Bool as 189° trans. L. Hultzsch ACWG hill list Klasse ix 5 Berlin 130° 2 od. Bombay 1903.

(fourteenth century)
Of uncertain but not early date is the Ngayasidda a lamayara? of Janakinātha Bhaṭṭacarya Cudamani which in four chapters deals with the means of proof of the Nyaya system and has been commented on freedomong others by Laugaksi Bhaskara and Yādava Other treatises both general and on particular points automoreous but do not reveal original thought

predecessor of Nimbaditya and if so falls in the eleventh century A D There is also a comment by Vallinatha

From Ganger; and Jayanta onwards reference is frequently made in the texts to ancient and modern schools. The pieces "signification of these terms is often in doubt in some cases the distinction is between

¹ ed Benares 1903 for date see A Venis pl 1 1v a MS of the commentary is dated son cut 145

ecommence;

1 ed The Pa di; trans. Cauganatha Jl & I dan Thong! ; v: cf
Keith JRAS 1916 pp 8 -81

ed with ladara s commentary in The Pand L.
Bodas TS p 49 NL pp 19 "0

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the Vaigesiki and the Nyaya views in others between such authorities as Vatsyayuna and Pragastapada in contrist with the Nu ide i school or even increly between those of Gangeq i and of Raghunatha Gromani and his followers. Uddyotakara itready refers to many diverse views held in the school itself, and Javanta alludes to many opposing views of which traces here and then certified helps literature as in the Sagrastallibant.

s o taraka

PART II

THE SYSTEM OF THE NYĀYA-VAIÇESIKA EPISLEMOLOGY

CHAPTER I

KNOWLEDGE AND ERROR

1 The Nature and Forms of Knowledge
Coontron (buddhi) in the Nyaya Vuyenka is essentially a property of the self-being described as a quality it differs, therefore, from either the act of understanding on the instrument as when it ranks in the Samkliya school. The function of instrument falls on mind which those performs the function of perceiving econition though it itself is imperceptible. Cognition receives in the early texts no second effinition. Gautama 2 gives it as synony mous with knowledge (praina) and apprehension (upclabdhi), while Prepastapada 2 merely adds another synonym, comprehension (prathyque). Gwadity a 2 contribution is the definition as 'a light which abides in the self'.

A nearer approach to reality is made by Keçava Migra 4 who gives among other alternatives the suggestion that cognition is what makes things understood. Annam

^{1.1 10 7} p 17! \SU vni f 1 2 5 93 4 p S9 TR p 125 sec Laks p. II

Bhatta 1 describes cognition as the special cause of the utterance of words intended to communicate ideas suggesting the view that cognition is a quality of the self, through which the latter has at once the idea to express and the word to give it utterance This defini tion, however fails to include the case of indeterminate perception which is equivalent to bare sensation and cannot be expressed in language More complete and fundamental is the other definition given by the same author, which makes cognition the knowledge which forms the content of the consciousness expressed in the phrase I have this consciousness The essence of this aspect of cognition is the recognition of the reference to self, which is implicit in ordinary consciousness. From the contact of the external thing and the organ of sense mediated by mind the self has the cognition This is a jar This cognition of a jai (glata-juanu) is there fore a property of the self a fact expressed in the judgement I am possessed of the knowledge of a jar or more simply I know a jai Cognition thus con ceived is styled anuvyarasuya because it is consequent upon mere consciousness of an object a point in which the Nyava Vaicesika departs from both the Samkhya and the Vedanta 4 who do not recognize that the simple consciousness is thus the content of a further conscious ness involving reference to the self and give to a single consciousness the duty both of cognition of an object and of cognition In the Samkhya view all is mechanical process without consciousness until enlightenment takes place through the soul which at the same time is

^{§ 34} ² NVTP pp₀4S 113 17 1 8 TC: 784 ff On the mpl cation of self-conse ousness ii knowledge of W Sorley Moval lakes pp °0° 7 ³ Cf SS v 51 Garbes note V johnabliku i 14

^{*} KKK 1 % ff 53 200 203 p 115

revealed 1 In the Vedanta doctrine there is nothing ultimately save knowledge which reverls itself and this also is the position of the \ijnanayada or Idealist school of Buddhism though it differs fundamentally from the Vedanta in denying the existence of a single intelligent abiding principle and admits only a series of impressions which in some way or other must be conceived as giving self consciousness To this view the logicians are entirely opposed they insist on the distinction of the self which knows the cognition and the object cognized and refuse to permit consciousness to play all three parts. Thus they differ from the Sautrantika and Vanhasika schools of Buddhists which accept external reality either as inferred or directly apprehended but unite in one the agent and the cognition itself and agree with the Pra bhakara school of Mimansa which however does not accept the principle that I ental perception gives know ledge of the self as cognizing but assigns this function to the form of inference classed as presumption the existence of a cognizing self being essential to explain the fact of cognition The position of Aumarila is less clear but he seems to have more closely approximated to the Nyaya view while admitting the Vedantic doc trine of the self as consisting of pure conscious ness s

Knowledge therefore is primarily directed to some thing not the knower himself who is only ipprehended either directly by mental perception as cognizing feeling or willing or as it o vajees ka lolds inferred as the substrate of these mental acts which it admits unlike

³ Ke til Sāmkhya System p 90

² PSPM pp 2off; cf SSS, vi. 7 8 Cogn tion 15 self cogn zed but as such not as object Ke th Aarma Minuz iso pp 00 00 68-71 2 PSPM pp 77 ff cf Keith JRAS 1916 pp. 374 CV pp 883

Prabhakara to be the objects of mental perception 1 Know ledge whether true (yathartha) or false (ayathartha) prama or aprama in the Vaicesika terminology is a representation of reality In each judgement there is an object of knowledge (vicesya) which possesses in reality certain attributes (ricesana) this attribute is represented in the judgement by a characteristic (prakara) which if the sudgement is to be true, must correspond to the attribute as it really exists. The judgement. This is a flower asserts that a portion of reality presented to us has certain attributes which are summed up in the characteristic of being a flower. This flower is blue does not differ 3 in any essential from such a judgement both being equally analytic and synthetic in both reality presented is accorded a characteristic which ought to correspond to the real attributes of the object Correct apprehension may therefore briefly be described as that which attributes to an ol ject with a certain attribute the corresponding a characteristic (tadvati tatprakaraka) while false apprehension is one which ascribes a charac tenstic to a thing which has not the corresponding attribute (tadabharavati tatprakarakam manam) 6

This is a perfectly definite if difficult theory of judge ment and it is defended with energy against opposing views To Pribhakari consciousness not involving memory alone gives true knowledge 7 in the view of

Below ch ax 61

NBl p 2 SP 4 140 TB p 89 NVTP p, 168 As a greated by Sual Intr p 2 8

NSAra p 1 Kus 1 1 TA, p 1º TR pp 8 11 TS \$ 3. NSM pp 5 ff.

Mow correspondence exists is unanswered real am ignoring here tle problem of Pringle Patt son The Idea of God no 110 30

^{*}TC | 401ff PBl p 1"7

*TSPM pp 19 21 "8, 29 PP p 4 kus w 1 ff TR, pp 19
39 NVTP pp 151 150 SS v 53 Plandarkar Comm blume PD 167 70

Kumarıla 1 a means of proof 15 that which determines as such a thing not previously experienced. To these views the Nyaya has the obvious objection that in any judge ment which is articulate there must be recognition which involves memory but the Mimansa answer is that cog nition essentially consists in the production of a quality of cognizedness (justata) in the object which then be comes the object of perception is e.g. This jar is known an! that this quality is generated on each occasion. To this the Nyaya reply is that cognition has no special form but is rather a potency which receives in each case its special character from the attribute abiding in the ol ject Cognition must not be regarded as transforming what it cognizes to be cognized is no quality of the object but a relation sur generis (scarupa sambandla) existing between the object and cognition The Mimais i doctrine of the grounds of validity of ideas is also criticize l The most advance I form of the doctunes is that of Pra bhakara who maintains flitly the truth of every cognition as such as is indicated by the fact that the water we actually see and the water seen in a mirage produce similar tendencies to action on the part of the percipient All direct apprehension is valid indirect apprehension due to memory introduces invalidity When a piece of shell is mistaken for silver the process is due to memory which through properties common to the shell and silver produces recollection of silver not differentiated as it should be with the mark of its pist character. So also memory accounts for the apparent seeing in dreams of non existing things In other cases where there is apparent error it does not he in the cognition The man whose vision is defective sees two moons the images not being fused in one as usual, the man who sees the whit

¹ PSPM pp. °1-5 °9 \$1 ÇV pp 28 ff ÇD pp 15 55 TF pp 39-54, SDS. pp 106 107 BP 135

conch as yellow fuses the perception of the conch with the yellowness of the bile which prevents his eyes seeing true. Kumarila is equally clear that the cognition is really true, what is in any case corrected is not the cognition but what is comized giving the doctrine of the self evidence (svatah pramanya) of cognitions subject to external invalidation The two forms of such invalidation are discovery by other means of the real character of the object and discovery of defects in the instruments of cognition such ns bile in the eyes. Though the older Nyaya' tradition is not so emphatic on the subject as the later it is claimed by both that the self evidence of cognitions is unsustainable 2 The truth of a cognition must be established by an inference, ultimately by an appeal to facts, If every cognition carried with it its validity it would be impossible for us to feel as we unquestionably do doubt In point of fact the real process is that on the sudgement. This is a horse there arises the further judgement I see a horse and its validity is proved by actually handling the object Smululy a cognition of water is held valid only because we have been accustomed to verify it by drinking the water and come to hold its truth without verification in each case, but subject always to such verification The true nature of false cognition therefore does not be in any confusion of what is per-ceived and what is remembered, through some defects of the organs of perception we apprehend something incorrectly, and then ab extra correct not our cognition, which was as accurate as its mode of production per mitted, but the result of the cognition, the silver which we believed we saw is replaced by the shell we really had

¹ MM, p. 151 2 TC 1 198 ff MM, t c., TA, p. 1c., TB pp 5.67, TK, p. 18 TSD 463 Bi 136 NV pp. 5, 4, NVT, pp. 5 4 NVTP, pp. 47 61 98-102

before us Error thus lies not as in the Mimansa view in non apprehension (a khyati)) whether of the thing or of difference between what is seen and what is remembered but in misapprehension (an_atl + khyati) ². The divergence of view between the two schools as to the self evidence of cognition was of the greater interest to either as the Mimansa view allowed its supporters to maintain the self evident truth of the uncreated Veda while the Nyaya maintained that the authority of the Veda must rest on its production by an ammiscent creater.

The Nyaya refuted also the Sautrantika Buddhist view which following Dharmakirti a regards a means of proof as that which determines an object. This it is argued cannot be sense for the eye gives us diverse colours, but must be the form (alar t) of the object which cognized affects cognition with its specific claracter and thus determines the object Similarity with the object is thus declared to be tle means of proof since ly reason of it apprehension of anything takes place 4. This view and the idea can neither produce nor make known nor determine itself it cannot act on itself to create itself it cannot make itself known in view of its very nature nor can it give lise to a judgement 'I know this as black based on itself as This is black, for in a coon tion which is self illuminating like that assumed ly the Sautrantika these two siles are inseparably connected At best the idea could only be deemed a means of proof by virtue of its pointing to the external reality whence

¹ NL pp 61 3 NVT pp 55 ff AVTP pp 417 ff KKK 1 244 NSM comm. pp 69 ff

^{*} TC i 430 ff NM pp 180 3 KhK. i 141 145 * NB p 103 is reproducel NVTP pp 152 153 cf IRAS, 191 p 185 n 4 Madh I ett p "i

^{*} NVT p 10 NVTP 1p 102 4 1 7 80

it is derived and the use of language forbids us to regaid as a proof a thing which does not produce even if like the supposed form it determines in this sense time know ledge It is obvious also that in the Sautrantika view the Nyava criterion of truth conformity with external reality disappears and nothing is left but ideas whence the mere existence of an outer reality is inferred as an explanation of their existence but not of their specific forms 1

Still less does the Nyaya accord with the purely idealist theory of Buddhism which regards ideas as the sole reality and finds that there is identity between cog nizer cognition and its object externality thus is due to an error which causes what is really part of an internal series of cognitions to be regarded as something external (atma khyatı) 2 The Nyaya naturally objects strongly to a theory which deprives the external world of all reality they insist moreover that if all is but idea it would be impossible to have such judgements as This is blue since the judgement would necessarily *ake the form I am blue which is absurd It is not denied that there may be confusion of what is external and what is merely internal in individual cases but that is simply a special instance of the general doctrine of error as misapprehension accepted by the Nyaya Still more objectionable if possible is the mililist doctrine of the Madhyamikas according to which all apprehension is of the non existence (asat khyati) 3 and is itself non existence a view based on the allegation of the incompatibility of all notions

On the other hand the Buddhist schools have strong arguments to urge against the Nyaya doctrine of know

Below ch 4 \$1 ch ui \$0 2 NVT p 54 NVTP pp 409 12 VPS 1 85 ff 3 NVT p 53 NVTP pp 412 413 FKK 1 141 1 189 240

ledge 1 Perception plainly rests largely on recognition which alone makes it articulate, but is recognition valid? Sense is sense and impression impression, how can they fuse to produce a whole or give testimony to the continued existence of a substance in time? Assuming that there is a tusion what is perceived can only be either a pure case of remembrance if it refers to the past or imagination if it refers to the future or of present apprehension for, as the previous cognition is past, it cannot be possible to appre hend a thing as qualified by a previous cognition To this argumentation the Nyaya reply is simple the sense or gan as affected by the impression is ample to produce the re sult, when in eating fruits we come to our hundredth we recognize it as such by reason of those we have consumed already, the past is gone but the relation with the past is real Recognition gives us knowledge of present objects as qualified by the past or, if we prefer as qualified by previous cognitions of themselves

In the Nyaya Sutra 1 itself a determined effort is made to meet the Buddhist argument that correct know ledge was impossible of attainment by reason of the impossibility of any of the three possible time relations (trankalva) between means of proof and its object Thus if perception precedes colour, it cannot be as held by the Sutra, due to the contact of sense organ and object, if it follows on colour, then you cannot say that perception as means of proof establishes colour, if simultaneous then we would have at one moment two cognitions which is impossible on the Nyaya view, and similar arguments can be applied to the other means of proof The reply given is that, if there are no means of proof you cannot prove that fact The difficulty of time is

NM, pp 448 ff , TC. i. 839 ff , of VPS. i 177-8; KKK. i 166 ff demoi shes all the proofs of Nyaya, NSM, p 12 s ii 1 8 19 Cf NSara pp 20 21, Nagarjuna in U: p 8-

not real, there are in fact diverse relations, thus a drum precedes its sound illumination succeeds the sun and smoke and file are contemporaneous, and so with means of proof and what is proved. An object of proof is weighed as it were in the balance of means of proof, and so with the means itself. If it is objected that, as each means of proof has to be established by another means then the object will need a sense of means of proof and not one only, or, if means of proof establish themselves then why not the object of proof? the reply is that means of proof are established like the illumination of a lamp, an expression which suggests that to Gautama perception and other means of proof proved themselves

Another difficulty as to knowledge presents itself from the Nyaya view of its transitory character, which is proved by the fact that recollection is only possible because knowledge does not last, but is a constant series of cognitions If so, how can things be known dis tinctly for there is no clear perception of colour in the lightning flash? The example, it is replied does illus trate the truth of the Nyaya proposition, we have only a hasty vision of the lightning and so an imperfect perception but a clear perception is attainable when there is continuity of momentary impressions as in the case of the rays of a lamp which themselves are transitory. but of which by the continuity of the experience we obtain clear knowledge. The answer is ingenious for the Nyaya doctrine of the transient character of cogni tion had obviously dangerous affinities to the Buddhist doctrine of the momentary character of cognitions and their falsity

On the other hand, the Nyāya 2 equally rejects the 'ma 2.404 Cf tile difficulty as to the possibility of analysatacya discoused TC 1 504 ff. helov, ch 'ma, 40 2 in 2 1 10. cf hamarin, Va. pp. 382 408, SS 1 145, NBh,

N, NT, 1 1 15

permits of the apprehension by the internal organ of the self as modified by that organ and empirically existent, thus in some degree aiding the Nyaya contention. The Jam' view again recognizes the distinction of cognizer, cognition and cognized, but tends to accept the Mimārea view of the self evidence of cognitions. It is possible as we have seen, that this was Gautamas own view, for his commentators 2 are driven to argue that the regressus ad infinitum of the proof of perception, &c, by other means of proof is evaded by the fact when being proved n me us of proof ceases to be such and becomes an object of proof The more fruitful conception of truth as a system was evidently impossible for them as light lealists Knowledge for them is rendered possible by the reality of enerality and particularity whose simil tancous presence in perception 3 hes at the root of all judgement and inference

2 The Forms of Knowledge and Proof

Cognition is variously divided in the texts of the schools Praeastapada adopts as the principum divisions the distinction between true knowledge and false knowledge the former is subdivided into four d tegories (1) perception subdivided as omniscient which is possessed only by a divine intelligence and non-omniscient which is appropriate to man and manifests itself as indeterminate or determinate, (2) inferred knowledge (3) remembrance, and (4) the insight of seers (ārsa) which is a peculiar form of perception possessed by these adepts alone. In the accepted doctrine of the syncretist school which follows the Nyaya tradition cognition is

SidChasena NA o with commentary

^{*} NBh , NV , NVT., 11 1 19 TC 1 278 ff

Criticized in Admilasi like trans, pp 93 ff

divided into the two great heads of apprehension (anubhava) and remembrance (smit) The former 19 then divided into (1) perception (pratyaka), (2) inferred knowledge (animiti), (3) analogical judgement (upamiti), and (4) verbal knowledge (çābda) The latter has no distinct species though the question is raised and decided in the negative of the inclusion in it of recognition (pratyablijha) Of perception there are two distinct kinds that of God which is omniscient and eternal and that of man which is transient and which may either be true or false The other kinds of know ledge are proper to man as opposed to God and admit therefore of truth and falsity. In the case of perception there is recognized also for man an essential difference between indeterminate and determinate perception in the former of which man comes into direct contact with the world of reality without him This division of forms of knowledge covers the whole field axioms in so far as they receive any recognition in the system fall under transcendental perception, which is a special form of determinate perception and belief is include I under verbal knowledge

The four kinds of apprehension are ascibled to four kinds of means of proof (maintaid) by Annam Bhatta, as by Gangesa making explicit a relationship which does not so explicitly appear in Gautaina. The term premanan, however is not without ambiguity. By Vatayayana it is defined merely as an instrument of knowledge, that by which the knowing subject knows the object. The ambiguity left by this definition which is applicable in a purely psychological sense, is cleared up in the definition of Quadity a which ascribes to a pramana association with true knowledge (prama)

a view which brings out at once the fact that a pramana produces knowledge and that if it is to deserve its name heads showledge must be true 1 e in accord with reality Annam Bhatta 'and Keçava Miçra 'recognize that the logical implication is as necessary as the psychological and Madhava 'gives a fuller definition which emphasizes this and other features necessary in a true pramana. Means of proof in this view is that which is always accompanied by true knowledge and at the same time is not disjoined from the appropriate organs or from the seat of consciousness i e the soul. The expression accompanied (vyapta) which here takes the place of cause (karana) in describing the relation of pramana to prama is used to convey the fact that the means of proof does not merely produce knowledge but assures its correctness while the addition to the definition makes to clear that means of proof is different from the self the mind or the organs of sense though all these have their parts to play in mental activity. The true sense of pramana thus appears not as a mere instrument of proof but the mode in which the instrument is used the process by which the knowledge appropriate to each means of proof is arrived at The definition of Madhava has in his view the further recommendation that it includes implicitly the doctime of the Nyaya that God is the fountainhead of all true knowledge since God is the seat of all knowledge and is ever conjoined with it

As all truth depends on agreement of knowledge and reality each of the modes of proof must conform to this test in the mode appropriate to it. In the technical phraseology, of the Nyaya this doctrine takes the form that each cogmition is true in virtue of a quality (gina)

^{*} N5 n 1 69 Kus n 5 6 TR pt 11 12 58 NVTP p 2

which it possesses and is false in virtue of a defect (doea), or more simply a cognition is true or false as it fulfils or falls to fulfil some requisite. Thus a perception is true if the object really possesses the attributes which correspond to the notion expressed in the judgmennt of perception, an inference if the process of inferring is busied about a subject which really possesses the qualities which in the conclusion are inferred of it a comparison if the similarity is rightly apprehended as existing, and verbal knowledge of the compatibility of the wordsheard is known. These conditions are defeated by sucleard is known. These conditions are defeated by sucleard is known. These conditions are defeated by sucleard structure of the case of vision bile in the eye of excessive distance or in the case of inference by logical errors of any kind

There is, however a serious divergence of view between the Nyaya and the Vaigevika regarding the number of means of proof. The syncietist school with the exception of Gradifya follow the Nyaya! and recept four perception which inconveniently enough scate that it is exception to the resulting knowledge though scate that it is occasionally used for the latter inference (anumana as obstinct from anumit) comparison (upa mana as opposed to upamit) and word or verbal testimony (galida as opposed to qabda). From the cost of Bhasarvajia by whom comparison is included under word the means of proof thus being reduced to three while the Vaigesika refuses to accept the separate validity of comparison and word which they reduce to inference. The Buddhists likewise accept in a sense perception and inference as proofs while the Jains in one school divided means of proof into direct and indirect and microted perception under the first inference and

¹ TC 1 508 1, * 860-6 TR pp 55 56 Some Valges kas allowed veibal test mony SSS v 83 Vyomaç va GSAI xx 63

word under the second 1 The same three were adopted by the Samkhya2 the Yo_a2 and in part by the Vedanta though in the strict sense revealed truth alone exists for the Vedanta The Mimansa and the normal Vedant view accept in addition to the four of the Nyava intui tion or presumption (arthapatti) and save Prabhakara ilso non perception (anupalubdhi) The latter in the Nyaya view in only an accessory condition of the direct perception of non existence, while the former is reduced to a form of inference The number was rused to eight by the Pauranikas who included tridition (attifya) and equivalence of inclusion (sambfara) among the means of proof the former the Ayaya naturally reduced to word while the latter falls under inference A ninth gesture (cesta) added by the lantrikas falls under word and elimination (paricesa) which son e Mimausa authorities made a separate proof is plainly part of inference On the other hand the Carvak school reduced to perception alone understood in the narrowest sense the means of proof a doctrine which they had to establish unhappily for themselves by inference while like the materialism which it accompanied it was entirely opposed to the whole system of the Nyaya 7

Remembrance as a rule hes outside the field of the

7 SDS cl i contre NM pp 36 64

Valyabl san Md Lg 1p 10 ff Soff NL 1p 108 109

^{*} Dousson test a ch v NL pp 11 118 P Tuxen logs

pp 106 ff abla a 1sg ven in NS 1 ? 7 12 as n luded n 11 fe e ce cf Kus

^{11 °0} and con mentary PSPM pp 72 3 co tr CV pp 245 ft NBh. NV and NVT do not d fier from NS b t see NV p 33 5 NS 2 16 PR p 2 3

o NS 1 0.2 of for all these VSU 1x 0 5 NSara pt 30 80 4 TR. pp. 96 118 SS 1 SS PBh pp 020 230 n 0 e vers on sambhava 1s probab l ty Pada haratnamālā pp 19 00

operation of the means of proof Laugaksi Bhaskara alone frames his definition of means of proof so as to cover remembrance 2. The reason for the omission is clear remembrance itself has no independent vilue leing basel on pievious experience and the normal opinion is satisfied with referring its character as true or false to the original whence it is derived. There is the obvious difficulty moreover that a remembrance may be hard to verify as compare I with the original impression if time has clapsed or the subject of the experience has gone to another place It is obvious however that the mere reference for then truth or falsity of 1emembrances to the sources whence they were derived is not com pletely satisfactory if the original impression were correct there may be forgetfulness in whole or part but the nature and condition of such errors are not the subject of investigation Remembrance is traced to an impression (sa slara bl trana) produced by experience which n ust be regarded as in some mainer a mental operation (vy para) which functions until it results in remembrance when an idea is recalled by an appre hension which awakens it (udbollula) by relations of various kinds 3

As tle product of an abiding impression alone 'temem I rance differs from recognition (pathydb y)) which is also in part due to in impression but has as its immediate cause the presence to perception of some object of previous experience recognition thus being due to sense accompanied by an impression produced by a previous apprehension. On from another point of view the cause

^{1 7} contrail iv 1 lef TP 1P 19 ff NATP

² NK p o7 already recalls the potto of PB1 pps 172 186
3 NS 2 43 44 VS ix 9 6 PBh p 2o6 below chix \$1

⁴ TS § 34 5 TB p, 109 of NBh pp 1 178 NV pi 68 ff NSara pp. 37

of recognition is the knowledge of the identity of the new and old experiences rather than an intermediate process of remembrance, or, as Givaditya lins it, recognition is the perception of an object qualified by the idea of being past. The importance of the part played by memory, how ever, is not denied, and in the developed doctrine of determinate perception some recognition is given to the pant played by memory in our actual concrete perceptions.

Apart hom its character as knowledge, cognition is of vital importance from the standpoint of the interests of man. Taking the traditional fourfold division, we have that which is to be avoided (heya), that is pain and its sources, ignorance, desire, meilt, and demerit, that which destroys pain (hānu), the knowledge of truth, that which brings this about, the science, and the final end, the removal of pain, and of these the knowledge of truth, or the instruments which produce that knowledge, ranks highest. Knowledge, we must remember, is not for its own sake alone, Cradity a "recognizes an essential feature of the system when he classifies it, at first sight irrationally, according to its nature as mer recognition, acceptance as attinctive (upadānu), rejection as painful (hāna), or treatment as indifferent (upakānu).

3 The Nature and Forms of Error

The essence of false knowledge (aprama) or error results immediately from the conception of true knowledge it consists in having the knowledge of an object as possessed of attributes, which are not in accord with the real nature of the thing, and it is manifold in kind

^{200, 267,} NM, pp 438 ff, TC: 839 ff; TK, p 6, SP, § 167, CV pp 473, 474, PSPM, pp 19, 20, NS: 111, Raghun the, PTN, pp. 58, 59, Padarlharamanal, p: 10

¹ NV, p 4 2 SP, § 37

The mode of division of error, however is much less matter of agreement than that of knowledge though the principles on which a division can be attempted are simple unough and generally recognized. Thus false knowledge may be deliberately held and believed in man may have a certainty which is yet untrue and his position constitut's error proper (bhrama). Or he may merely be lacking in certainty in which case his condition is that of doubt (satigam). Or again his ignorance may be real and involuntary arising from causes which he is unable to control or he may deliberately for his own purposes make a false assumption with a view to a reduction ad abstratum (tanka). Or again there is the pucular form of error seem in dream.

In the classification of Praçastapada¹ the division is fourfold possibly not unnifiuenced by a desire to make, the subdivisions of error correspond in number with those of true knowledge which in his system are also somewhat artificially reckoned as four. They are doubt error indeterminateness and dreim. This division which is in essence found in kanada¹ is retained as it stands by Jagadiya² but the othic members of the school endeavour to effect a reconclusion between the view of Praçastapada and that of Gautama⁴ with whom doubt and reduction ad absurdum form two distinct categories. The most interesting of the attempts to follow. Praça stapadas that of Qrw litya² who reduces the subdivisions to two but manages to find a place in them for the others. His classification assumes the two classes of doubt and error in the formet he includes conjecture (who) and in iterminateness⁴ as well as reductio ad absurd in in the second he includes dreams. Annam in the second he includes dreams. Annam

tiruddhananakotilam manam) This last definition makes it clear how doubt differs from indeterminate perception which is in reality mere sensition and which therefore hes far behind the stage at which doubt can possibly arise On the other hand doubt in the precise sense of the word differs from conjecture which Cavaditya classes under it in the former case if for instance we see at a distance an indeterminate object which we conclude must either be a man or a pole that is doubt if we advance to the stage at which we decide tentatively and without assurance in favour of it being a man con jecture is reached Indeterminateness which Civaditya makes another subdivision of doubt is exemplified by the uncertainty which one may have regarding the precise species of a tree it is therefore a modified and hmited form of doubt

The various causes which can give rise to doubt are variously given by Madhava 2 Vict in the and Kegava Micra The most obvious and the stock case is that where the object is seen to possess attributes which are generic in character and therefore may belong to several different things as in the usual example of the object which with outstretched arms or branches seen at a distance may be taken for a tree trunk or a motionless ascetic The alternatives here it is pointed out are really four the thing may be a man or a tree trunk or some

¹ SP § 164 NSara pp I ° 1 SDS pp 9° 93 Cf NS. 1 1 23 where percept on and non percept on make up fve so NSara Ic the number is reduced to three n TR pp 160 8 refut ng NSára and explain ng NS Cf. also NS ii 1 1 7 for a proof of the real ty of doubt AB accepts five classes NV and NVT three AM pp 556 6° five cp PSPM p 3° KKK il 187 96 Deussen (Allgem Gesch I il 87) auggests that orig nally it referred to two opposing views only PBh pp 174 ff liv des doubt as internal and external criticized by Rach mati a PTV pp 67 91

thing which is not a man yet not a tree or something which is not a tree, yet not a man. Or two opinions may be before the subject which he has no means to decide between Or the object may have qualities too ill defined to secure its recognition. Or on another interpretation even if the object has a specific quality is the earth has odour, yet one who knows that the quality of odour is quite different from the quality of being eternal or the reverse but does not know the position of the earth in this regard may don't whether or not the earth is eternal on not

While doult shries falsity in virtue of the fact that it is the knowledge of an object but only in an indeterminate manner, error is absolutely false as it consists of certainty of the opposite of the truth the object presenting itself with attributes which are repugnant to those which it possesses in reality. Thus error is simply equivalent to false knowledge consisting as it does in perceiving an object differently from what it actually is. Doubt if the doubter decide in favour of the wrong alternative becomes error but that is only when certaints though in the wrong sense has replaced the former doubt. Again error to be such must properly speaking be involuntary due to physical or external causes, apart from the will of him who commits the error. Such are the errors which occur in the case of perception through debilities of the organs or circum stances such as excessive distance or too diminutive size which preclude the due functioning of the means of perception.

From error of this type which is involuntary differs entirely the form of error which consists in the *reductio* ad absurdam, and which plays a great part in logic being dignified by Gautaina with the rank of a category. In the ceroi. Involved of course is the false assumption which forms the basis of the reasoning and which essentially differs from rull error by reason of its deliberate assumption for the purpose of proving some proposition of confirming a proof arrived at in some other way. From doubt it differs essentially also in doubt there must be several alternatives available the reduction and all surdium is intended to show that some thing must exist in some determined mode or else some absurd result will be obtained.

The utility and force of the process may be seen at its best in the stock example which seeks to prove the truth of the conclusion that the mountain is fiery because it has smoke 2 Where this inference is set out when the propounder of the theory has enunciated il e proposition and the reason he proceeds to give the general proposition Wherever there is smoke then there is fire At this point however he may find that his antagonist will not admit the truth of this proposi tion and denies the universal concomitance of smoke with fire He then resorts to a reductio ad absurdum He asks his adversary whether the mountain is fiery or not if the reply is in the affirmative obviously he need not proceed further as his conclusion is proved. If in the negative he proceeds to the proposition If the mountain is not fiery then it cannot be smoky. If the adversary will not admit this then he is challenged to produce an instance in which smoke is found in the absence of fire this he cannot do and therefore must admit the truth of the proposition Where there is no

^{1, 1 40} NBh pp.65 " NV pp 161 5 2 Jacobi NGWG 1991 pp 464 n 2 469 n 1 sec TC 1 219-42 TR. pp. 185 **04 NVT pp 41 42 NVTP pp 325-88 KK ii 206 45

fire there is no smoke. From this it follows that as there is no fire on the mountain there can be no smoke a conclusion which manifestly contradicts the truth and drives the adversary to admit his error in opposing the original demonstration In the technical jargon of the schools the procedure of reductio ad absurdum appears as the admission of the concomitant (vyapaka) i e in the supposed case the non existence of smoke as a con sequence of having admitted that of which it is the concomitant (vyapya) 1 e the non existence of fire The propriety of classing reductio ad absurdum as error lies technically in the conclusion which is reached by the process and which is palpably false. The account given by Gautama is simpler ne luctio ad absurdum appears as an investigation regarding an object whose nature is unknown carried on for the purpose of ascertaining that nature and based on the fact that there must be some cause involved As Vatsvavana 2 explains the process the knowing subject confronted by an object recognizes that it may possess one or other of two contradictory attributes and finally reaches a conclusion based on causality a view which represents the process as it presents itself to one who is seeking to find for himself the truth while the later texts give the process as used

in controversy in order to convict an opponent of error. The older Nyaya—not Gantama or his exponents—admits eleven divisions of the general class tarka of these the modern school admit only five the last of which pramanabadhitarthappasanga is reductio adsurudum as just described the other four are properly forms of logical error they are reasoning in a circle (cakra) regressus ad infinitum (ananasha) dilemma (anno nderawa) and camorato elemba (atmacava)

TS § 64 In NS 1 1 40

These and other logical errors whether due to so lustry or incapacity for correct argument, have no real affinity with the process of reduction ad absurdum which in effect is a valuable means of proof

The dream state appears with Praçastapa le as the fourth form of false knowledge and Keçara Migra? makes the matter more precess by explaining that in the waking state memory may be true or false but that the dream is always false because we erroneously substitute the idea this for that In remembrance in fact we recall an object as past. I remember that flower which I saw jesterday. In the dream state which is really memory I fall into the delusion that I actually see this flower which in reality I merely remember before my eyes.²

The exact process of the dream is indicated by Praca stapada and Çankara Mıçra developing Kanādas doctrine that dream arises like remembrance from a previous impression and a special contact between mind and the self Dream knowledge is the appre hension which arises when the senses have ceased to be active and the mind is quiescent. It is of three kinds it may be due to the vividness of the impression received in the waking state previous to slumber it may arise from a disorder of the humours wind bile and phlegm, it may be caused as in the Vedanta view by merit or dement arousing pleasing or terrifying visions quaint details of which the texts give including among the ill omened the spectacle of ones own marriage From dream knowledge is distinguished that which inheres in or hes near to sleep or dream (svapnāntika) 5 Pracu

¹ TB p 89
2 Cf Aumänla, CV p 173 VPS i 97 CD p 39 PSPM
pp 31 89

stapads tells us that this is the cognition which springs up in a die in in the form of the recollection of something ictually experienced in the dream state. Thus the visions of a dieam are accorded power to leave impressions though themselves nothing save impressions of experience a suggestion which might have evoked the idea that the dream was really the expression of a personality other than that dominant in waking life had not any form of parpsyclism been abhorrent to the school. Other interpretations of the phrase were also current in one view it denotes a prophetic dieam in another that dieam experience which is felt as actual perception owing to its vivid character.

The dream state is possible only in that form of sleep (nidra) in which contact of mind and self is possible though contact between mind and the other sense organs has ceased a condition which Yogins can artificially produce In deep elecp (susupti) all contact of mind and self censes and the self as in Prabhakaras view ceases to have consciousness for which mediation by mind is requisite while on the Vedanta view shared by Kumarila it regains its condition of pure consciousness m which of course no dream is possible 2 The physical possibility of this severance of mind and self rests on the atomic size of the litter and on the view that in deep sleep mind retries to the puritat apparently concerned as a fleshy bag near the heart in which in some unex plained way it is severed from the all pervading self This glotesque speculation of the school is due as in the Samkhya and Vedanta which have an analogous doctrine to the influence of the Brhadaranyal a Upanisad which tells us of the departure of somethin -- the soul according to the \edanta-into the puritat in sound sleep

¹ SP \$16 PBb p 208 ² NS 17 1 63 PSPM, pp 8 79

² Athalye TS pp 143 149 Do seen Fell a cl xxv11 Garbe

S kh₂o pp 274 ff

CHAPTER II

PERCEPTION

1 Normal Perception In its widest sense perception includes two things

which differ in vital respects, the normal or human per ception which is transient and the perception of God which is immediate and eternal and which possesses only so much in common with normal perception that like it it does not depend on any prior knowledge Man however is not totally devoid of a perception which has in it something analogous to that of the deits though unlike that it is transient and conditioned but his normal perception stands on an entirely different basis bringing him into immediate contact with the world of reality Knowledge which arises from the contact of sense and organ is given by Gautama 1 as the meaning of perception when not subject to error, when not re ourng further determination and when definite it reaches the stan lard of correct knowle lge \ atsuma ana a renders more piecise the process of perception the self is united with the mind the min I with the sense the sense with the object with the result that perception thus arrses. In doing so he definitely brings mind into the position of a quasi sense though in that quality it 1 1 1 4 aryapadeçı am ar jabl iou v y rası je walan for the first

epithet see Jacobi JAOS xxxi 20 1 2 The earn lexcludes

^{*} NBh : 1 4 NS : 1 of NV pp 40 ff

appears neither in Gautaina or Kanāda, and the former classes it among the category of objects of knowledge as opposed to instruments of prior. Despite however its connexion with the self and the mind in this manner the proximate cause of perception is the sense or more strictly its contact with the object a distinction which permits the classification of the apprehension of pain or pleasure by the mind as perception while excluding from the citegory other ment il processes such as inference in which mind is active but not as the provincia cause

The place of mand in the process of perception is established by a scries of proofs The self is all per vading consciousness but experience shows that despite the presence of objects of sense and organs of sense frequently perceptions do not result a state of affairs which can be explained only on the assumption that there is acquisite something to establish a special contact between the self and the sense or mans with their objects Agun the fact that we experience things not all at once but in reality, as analysis shows successively proves the intervention of something between the self and the senses Mind however, has not merely this function of intervention feelings like pleasure and pun are actually experienced just as much as sensations of colour and sinell and it is a fan argument from analogy to assume that there must be for their apprehension an instrument comparable with an organ of sense. The facts of remembrance 2 point in the same direction if it is argued that feelings thoughts and volutions are directly pre sent in the self it is impossible to explain why they are not always and invariably presented which experience shows not to be the case. Mind, therefore, has a double

function to perform, on the one hand it mediates be tween the senses and the self, on the other hand it plays the part of internal sense and has as its objects the working of the mind. It is interesting to note that feeling and volution are thus ranked on a par with cognitions as the object of internal perception.

Further light is thrown on the definition by the discussion in the Sutia 1 of the argument that perception is leally inference since when we see a tree we really per coine only a part, the lest being supplied by inference the part serving as mark of the whole. This view is rejected, it is pointed out that admittedly there is per ception of a part, and that all perception is not inference but it is further maintained that perception of the whole is real and direct and is verified by our ability to hold and pull the tree or other object as a whole The dis cussion is then linked to the dispute between Buddhism and the Nyaya on the relation of the w) ole to its parts the Ayaya maintaining firmly the reality and distinct character of a whole This passage makes it somewhat difficult to be assured of the correctness of the interpret tation of the epithet not requiring further determina tion' in the definition as meaning 'not expressible ly words which Vâtsyayana and Ud lyotakara give, other commentators the latter tells us interpreted the phrase as excluding inference and indeed a perception which is to be exempt from confusion of objects and to negative doubt seems almost necessarily to involve expressibility ın language

The interpretation of the Sutra was cally affected by the necessity of bunging it into relation with the important doctrine of Dignaga who from the stand point of a modified form of idealism, propounded the definition of perception as free from determination by imagination (kalapanāpodha)1 which Dharmakirti improved by adding that it must be correct (abhranta)? As will be seen in dealing with his doctrine of inference, as a logician at any rate, Dignaga, followed by Dharmakirti,2 recognizes a perfectly definite distinction between the parts of sensation and imagination or intellect in perception, the former gives us absolute reality in momentary contact but a perception giving name, sub stance quality, action or class is essentially the product of imagination synthetizing momentary impressions, a view obviously very different from that of the Nyaya with its realism since all that is real in the full sense is the momentary sensation, which is absolutely mexpressible A perception as opposed to a sensation gives the form of the object but that is derived from the intellect not from sensation. The distinction thus drawn between sensation and perception with the allocation to the latter of the work of intellect was not accepted by Uddyotakara or by Pracastapada, the argument of the former whose attack on Dignaga is vouched for by Vacaspati being that a consistent sensationalism should be speichless and therefore unable to give the definition suggested

¹ NV pp 44 45 Steherbatskoi Mass v 162 4, below, ch m

NVT, p. 102, TR, pp 60 C1 Made 1 rtt 1p 60 75 NB, p 103 NBT, pp 4 8 15-20 SD5, p. 18 NS ra commentary pp 81 8, SD5, p 29

In his 5m dai daran idh (Bibl Doddb xx) he appears as an itelatis sang-phase, denying the existence of cognizer or cognition but the use of his logical view by Sautrivitias (N-YF, pp 152 4) and X bhakias (Cibr Lc) who yere but realists shows that his logic, was compatible with realism, even if ultimately he himself meant to awage the senion to the daigner jutes as its own.

^{*} For the sinds of knipses of NV, p 44 \Sara, commentary, La., TR, Le., NV, p 93

^{*} NV pp 44 45

[°] p 187, \k, p 190, \$DST p 6

or to describe perception as impermanent or a source of pain. If the terms of the definition mean only that the specific individuality of an object is inexpressible that is true since all things have a general and a specific character, and are expressible in the former aspect only, but this gives no real definition of perception

With Trilocana, a predecessor of Vacaspati of whom we know little else.1 there seems to have been introduced into the school interpretation of the Sutra the view that we must distinguish between two torms of perception, the first of which gives the bare knowledge of the class character of the object and is styled indeterminate (a or nii- vikalpaka), while the second in place of giving the bare qualification of the object (tigesung) gives the determinate (sailkalpaka) relation of qualified (tigesya) and qualification whether the latter be strictly so called 1 e something essentially coexistent with the thing qualified or an accident (upalaksana) The Sutra must it is held, refer to both the latter depending on the former, which is mexpressible in words, like the cognition of children or those who do not know the correct term for a new experience, and therefore the first is understood by avyapadeqya, while the second by vyarusayatmaka This doctrine reappears in a classical form in Gungeça 2 who insists that the existence of this abstract or indeterminate perception is known by inference, since, unless it is postulated there is an infinite regress, and we must therefore accept as final a direct perception of the class (substance quality or action), which, however, always becomes concrete by application to the thing perceived, the two forms therefore not constituting distinct species,

¹ See Vacsspati on i 1 4 He is cited also on other points in TR pp. 337, 356 (before Yacsspati), of on the Satrs, pp. 63 64 ² 10, 1809 ff., so TR., p. 64, NM p. 97 ff., TA., 1 8, NSM pp. 13 14 of Ruderfauntian add, 1p. 6, 7

on the determinate perception follows the reference to self in the ani rya asay i At the same time the defini tion of perception is revised to run a cognition which is not brought about by another cognition a definition 1 intended to meet the objection that the old definition really covered every cognition since organ was inter preted to include mind that it omitted the divine cog nition and introduced the term organ whose extent could be decided only by perception itself. The new definition excludes inference which depends on the perception of the invariable concountance of the middle and major und of the presence of the middle in the minor analogs which rests on cognition of similarity and verbal testi mony resting on cognition of the meaning of words a fact which also explains the primacy given to perception as a means of proof by the Sutra

Another point of view however appears in Rumari's the Age_neare's and in recent Nyaya' doctrine. The Bad linst doctrine of the peculiarity (exit likes a) of the object in indeterminate perception was not on the one hand by the assertion of the Cabdik's that it was the large name, which was thus apprehended while others the Velunta hald that it was existence in its abstract to Velunta hald that it was existence in its abstract form (astir) views which Javanta rejects. Rumarila held that sensationiset up a condition due to the thing in itself (a lidhat isting) of observation like that of a new born child on perceiving in this in their generality and

¹ TC 1 50 Mati uranaths 1, 2009) explains this as not inconsistent vith Cod being regarded as the final cause of all knowledge 1 NB1 p 3 NV pp. 14 ff

[&]quot;C pp. 8" T. v 112 ented in Tl' p. 64 \Sira, commentary p. 86 I-PM pp. 3 % a rees ratl er with TC. PBh. w th Cl

pp. 3 4 44 6 the commentary takes the list action of kinds as applicable to locus perception only

^{*} TB. 11. 2 25 T.D 11" SP 11 36 166

^{*} TR PP 61 6_ * NH 11

particularity are latent and which only later developed into determinate organizon and the Nyungasiu makes it clear that indeterminate perception gives only the mere existence (wastuswings making) of the object in the recognition that an undefined something exists on which determinate perception is built up. But unlike Guigea, the indeterminate form is no mere inference unobserved in practice it can be seen in any case of the acquisition of new knowledge. The latest development of this view definitely seviers indeterminate perception from all other forms of apprehension at the root of which it lies, and thus approaches the psychological conception of sensation is opposed to perception.

The validity of determinate perception is indurally assailed by the Buddhists, who deny that perception can give connexion of an object with a name, or that there is any generality which can be predicated of an individual thing, which is momentary in character. The Nyaya with Kumarila refuses to accept these contentions, generality is directly perceived when an individual sapprehended, and cun therefore be predicated of the individual despite its unique character. The giving of a name is certainly not derived from perception and a perfectly clear perception is possible, cg of inuscial notes, though we cannot name what we see whether from ignorance or forgetfulness. But the name can be supplied either on or after perception from memory or instruction, the giving of names is necessary for communication of knowledge and memory, but it is not in itself a source of erro. Nor is perception needly due

¹ Nikkanth on TSD 4 c., Athalye, TS., pp. 219, 220 .
1 VSU vm 1 2, ÇV, pp 9"-116 on generality, pp 201-1", 281 95, 464 8, cf below, ch m, \$3, \SM , pp 12 ff

Cf Arist , de Interpr , 16 a 19

to the activity of memory, in our perception of any individual thing much is due to that source but its distinct individuality and time relation are directly due to perception

2 The Forms of Perception and their Objects

The organs of perception are sex in number five external those of sceing hearing tasting smelling and touching (a term which includes the temperature sense) and one internal mind and there are various ways in which the contact between the organ and the object which is the prerequisite of perception can take place1 These are conjunction (samyoga) inherence in that which is in conjunction (sai inulta samaraya) inherence in that which inheres in that which is in conjunction (s 11 1yukta sumareta samuruya) inherence (samaraya) inherence in that which inheres (samareta samaraya), and relation of predicate and subject (size a in sicesimita) and all that is the object of perception must fall within one or other of these modes of contact The divergence of modes rests on ontological theories the eye for instance as a substance can come into direct conjunction with another substance but only indirectly with e g colour which inheres in that substance and at a further temove with the class concept which inheres in the colour which inheres in the object with which the eye is in conjunction The en again is a portion of the ether and sound inheres in it and therefore is apprehended by the relation of inherence, while its class concept by the relation of inherence in that which inheres. The last class is intended to meet the special case of the perception of inherence and negation

¹ Cf V5 vn 1 3 11 VV 1 1 4 TC 1 5 2 ft TA p 15 TB pp 99-30 TA pp 8 9 TS \$43 BP 59 61 NS w 11 2 3 4 50 \$DST 1 17 NSM 1p 6-31

Among the objects of perception the qualities of the self such as cognition pleasure and pain are perceived by the mind and the later Nyaya includes the self itself in that category, while the \aicesika accepts the doctrine that the self is only an object of inference 1 Of the other objects, it is agreed that a substance having magnitude can be perceived by sight provided, however that it has a manifest colour? the form of contact is literal consunction the object and the eye being deemed to come into actual effective contact. The modern school admits also the power of touch to perceive substance, provided that the substance has in it the quality of touch while Vigernatha by an unhappy attempt at a compromise between the views makes the power of touch to discern substance conditional on the substance having manifest colour Quality and motion3 again are perceived by the organs by means of the second form of contact inherence in that which is in conjunc tion Generality the fourth of the Vaicusika categories is perceived by the second or the third of the forms of contact according as the generality is that of substance or of a quality or action Particularity, which resides in the atoms is necessarily immune from normal perception

There remain the extegories of inherence and non existence both of which the Nyaya holds to be perceptible, while the Vargesika restricts this power to

n. 10 gives direct vision to Yog as only below th ix \$ 1

p. 10 gives direct vision to log as only below on it § 1
2 VS iv 1 6, below of vii § 2 ch wii § a Light therefore
is necessary for visual perception but as affecting it e object, not the
organ

[&]quot;Full taker denies percet tion PP., pp. 78 "9 Kumarila accepts it CD., p. 50 Deusen a denial (Alber a Gach, I in 1909) that and stance is perceived as an error aight touch and mind see substance NSM pp. 2" of the modern destrine of the sensition of movement, if Wildon Carry, free, 4" of Sec. 1915 to

non existence and asserts that inherence is a matter of inference. In either case the contact of piedicate and subject is held to apply a view based on the fact that inherence and non-existence having no autonomous existence can be perceived only as attributes of some object in which they are found. In the case of inherence the conception which is confined to the strict Niava view 1 is at least simple but the case of non existence 2 presents obvious difficulties As it is not a substance it cannot be known by conjunction as it is not a quality activity or class it cannot inhere in a substance and therefore can be perceived only by its relation to that m which it does not exist. The perception of the non existence of a pot on the ground involves accordingly first a contact between the eye and the ground and secondly a peculiar contact between the ground and the al sence of the pot. This contact may be expressed in two forms either as The ground is possessed of the absence of a pot (glatal harary l bhutalam) the _round serving as the subject and the absence of the pot as the qualification or as There is the al sence of a pot on the round (bl) tale of atabharo str), in which case the rela tions are reversed. Thus the sixth form of contact consists of two distinct kinds corresponding to the divergence in the form of proposition in the first case the negation forms the qualification of that which is in contact (say yakta vicesa) at i) namely the ground with the eve in the second case the negation is to be qualified ly that which is in contact (say y kta vices inta) In

TB p 30 of TC 640 ff NS3ra pp 3 8° by inference only TR p 16° b t sec NVT p 70 NV p 31 13 botl PSPM p 89 f NSM p 30

⁷ NSM P 30
2 Y5 x 14 1 6-10 TB pp 99 90 TK p 9 TS 444 \Sara
pp 3 79 80 TR pp 103 16 \YPP pt 464 80 \YV p 33 that
t is interred is the trew n | Bl pp 9 101 \YV pp 10 9 PBh
1 329 n styl at linke ence * interable only

the case of purception of a substance like a pot however there can be no such duality of form of contact, a pot we see in itself but the non existence of a pot can be perceived only in virtue of its relation to the ground and it is in the double form of relation which is possible between the pot and the ground that there lies the reason for the double form of contact possible

Non existence however is not applierble to substance only the last form of contact, though it primarily refeat so substance is available to be brought into open tion in cases where the positive element is established by any of the other modes of contact thus the nonexistence of a quality is established by a variety of the relation of subject and predicate applied to the second form of contact and so on.

This peculiar mode of contact assumed by the Nyaya 18, not unnaturally rejected by the Umanas which however agrees with the Nyaya in the view that non existence is the object of direct apprehension. Contract between an organ and non existence is impossible it is argued because contact must be either conjunction or inherence. Conjunction is possible only between two substances and non-existence is not a substance. In herence signifies inseparable connexion and no one can assert that of an organ and non existence. Moreover these conceptions have validity only for the world of existence and should not be applied outside that sphere. They assert therefore non perception (anupulatidity) as a special independent means of proof a view which the Nyaya rejects? In doing so however it is compelled

^{1.} As Raghunatha (FTN p 48) holds ... He also (pp 7 6 8) claumit 1 st rat, skep in a special extegory of Claub Februr antisons 1 pp 7 8 7 10 16 73 92 TB pp, 52 5 TK pp 17, 18 TSQ, 54 8 ks fit 20 2 NS a, pp 33 14, 214 5 TR pj 10 16 FSSM, pp 7 3, NSM, pp, 34-59 es fra CV, pp 213 5° CD pj 60 s KKK, 1555 6t ridlette the Nykya versions.

to make concessions and to admit that non perception is in accessory cause of the result. The mere vision of the ground does not suggest the absence of a pot it can do so only when there was reason on other grounds to expect the presence there of a pot and, when this expectation is defeated by our failure to see the pot the brais is laid for the peculiar contact which in the Nyaya view is the cause of the perception of non existence. But the Nyaya is careful to emphasize that non perception even as a subsidiary means must be restricted to tion even as a subsidiary means must be restricted to cases where perception is possible thus the merit and dement of good and evil actions is real in every sense but it is not open to perception and fullure to perceive it is no ground for asserting that it does not evist. The controversy with the Mimansa thus reduces itself largely to a point of form the Nyāya admitting non perception as a subsidiary while the Mimansa insists that it is the primary, cause of the perception of non existence and that it has the distinctive character of differing from perceival in inference or other proof.

that it has the distinctive character of differing from perception inference or other proof.

Other difficulties regarding perception are raised and solved in the Nyaya Sutra. An interesting suggestion of Dignaga that material contact is not the cause of vision is put forward supported by the possibility of distant vision and of the eye seeing things larger and smaller than itself. The reply is that contact is effected by a ray from the eye which as possessing neither magnitude nor colour is missible it is not merely over powered by light for it does not shine in the durk though the ray in the eyes of cats suggests its presence in ours also. The obstructions met by sense prove also materiality, if glass mice crystal do not prevent vision it is simply because they are transparent a wall does prevent it. If contact, however is necessary, it is 18.8 in 13.0-50 of Kir p 746 NK p. 28 NV p. 25.5

natural to suggest that there is but one sense organ the skin 1 and that all other senses are mere modifications of it This lowever is contrary to the fact that objects are not perceived simultaneously which argues a differ ence in their apprehension Or again if from the fact that all things perceived by sense have the common quality of being an object it is argued that sense also is one this view can be met by pointing to the different character of cognition in each of the five cases the different location of the organ the different process of its action the different form of the organ and its divergent constitution from atoms. Eye nose tongue and skin are composed of atoms of fire earth water and air while the ear is a portion of the ether and these elements have the characteristic qualities of colour odour sayour tangibility and sound. It is true that all save air and other possess more than one quality but one predominates both in the atom and in the sense composed of atoms 2 so that each sense apprehends one quality On the other han I no more than five senses are neeled for a separate sense is not required for the apprehension of distinctions within a genus 3 Though the senses thus possess qualities they themselves are invisible and their qualities must therefore exist in a latent state ' as must le the case if they are to perform their allotted function a conception which has a remote affinity with the Aristotelian doctrine of sense as a

The rap dity of the ray pie ents the observation of its a coessive act on lis conjunct on with po nts of space expla na our se se of d s tance of KKK. 1 111 SS v 104 S D gnaga is q oted Pad ka ro na na a pp 21 22

Of Mh p 45 a San khya v ew ace to Padurth 1 AS 1 1 51 8 61 9 TS v 9 5 6

^{*} NS 1 1 59 CO CV p 98 * NS 1 1 0-5 SP \$ 125 TB p 67 Th p 3 CV p 169 Laks p S Cf Arst le An i cff

potentiality just as the doctrine of mind may be compared with that of the sensus communias. The organ is thus the place of contact between mind and the self—its existence unlike that of external things is proved like that of mind by inference alone every agent requiring to work by means of an instrument. The exi however stands in a special position as it actually is part of ether' and possesses sound as a quality. Hence in the perception of negation in the case of sound what is perceived is not as e.g. in the case of the negation of a jar a qualification of an object e.g. earth but of the organ of sense itself?

Keçava Migra 3 is responsible for an effort to make piecise the instrumentality of sense and the contact with an object in producing indeterminate and determinate perception respectively. Sense is the proximate cause (karana) by its activity (vyapara) contact gives indeterminate perception, contact as cause with indeterminate perception as activity gives determinate perception in determinate perception with determinate gives desire But this refinement is not generally accepted.

3 Tras scendental Perceltion

Normal perception as described is essentially based on sensation and there is therefore in it a substantial tasis for the contention that the Nyaya Varcesika system is comparable to the sensationalism of Locke' It is true moreover that in its origin the doctrine was frankly accepted in its folliest extent by both schools the Nyaya expressly lays down that inference depends on percep

^{*} til the TS pp 231 232 Jacobs MGWO 1901 p 461

tion and the same conclusion obviously follows for such knowledge as is obtain the by comparison. But it must not be forgotten that verbal knowledge in the Nyaya conception extended beyond this limit and Praeastapada accords decisive weight to the tradition handed down in the works of his mixter kanada menther view being in harmony with a pure sensationalism and in perception we know generalty as well as particularity

The growing care with which the mechanism of proof was studied resulted as was mevitable, in the definite attempt to provide a place for the ideal element which was plumly somewhat lacking in the older theory of perception It was realized that to establish a universal proposition by mere empiric means was impossible no summing of individual perceptions would give any assurance of legitimacy of reasoning In the syncretist school in Lauguk's Bhaskara' and in Vievanatha' we find fully developed the conception of a supernormal or transcendental perception (alaukika pratyaksa) which manifests itself in three different forms. The first whose characteristic is generality (samanya-laksana), is the knowled e which we possess from seeing an individual thing of the class to which it belongs and of all the individuals of that class not however, as individuals but as making up the class. This form of perception cannot be explained by any normal form of contact, it is to be interpreted as due to a connexion (pratyasatti) between the mind and generality sui generis A second form whose characteristic is knowledge (ji ana laksana) is exemplified in the action of the mind which when we for example perceive a flower brings before us the

¹ TK p 9 of VSV 12. 1 11 TSD p 45 1 Bp 62 6 for Gafigegus view see TC ii 253 ff NSM pp 23 ff Its place in inference is fully recognized in Kumarila ÇV pp 201-7 AB, p 100.

conception of fragrance as pertaining to it, though the conception itself is at such a distance that we have no possibility of actually experiencing the older. The process demunds therefore, that we should already have framed for ourselves the connexion of the generic relation of odour and flower, which on the perception of the flower enables us to assert its odour, the process which lies at the root of inference. Under the same head full the products of the creative imagination of the poet or thinker, and even such cognitions as deal with know ledge of the supersensible as 'I know an atom '

While these two forms of supernormal knowledge stand in close relation and represent fundamental realities the third, born of ascete power (page 30)* is peculiar to the system, and derives its existence from its acceptance of the power of seers to perceive in an intuitive vision the whole of truth. The exact cause of this power is asserted to be the contact of mind and the ment which the ascetic has acquired. In the complete ascetic the perception is ever present in its perfection, at a lower stage of merit it requires concentration of mind to achieve it.

Of these three forms it is clear that the first has close affinities with the simpler early doctrine that every sense can perceive directly generality by the use of the second and third forms of normal contact according as the generality is that of a substance or quality or activity. The modern school however has advanced beyond this doctrine by insisting on the peculiarity of

NVTP, commentary pp 466, 160 161 of Padartharathamald, np. 6-8, where God a perception appears as one distinct class.

⁷ VS ir 1 11, 12 Hence VS.rrs, pp. 2.4 with a trision into determinate and indeterminate applicable to the lower form (gapta, carba), and the indeterminate only in the p kinesiski, see hir § 2 Cf SS, 1999 If Tp. pp. 59 60 with commentary VBh, p, 10, ÇV p° 2, PBh p. 7.2 has draw Cf K.k.h. 2.9 NK p. 19

the form of contact and accentuating the part played by mind, which in the first form of supernormal knowledge frames the general concept and in the second is responsible for the association of ideas which constitutes it. There need be little hesitation to ascribe to the influence of Buddhist logic with its insistence on the part of imagination in the framing of ideas the growing appropriation in the Nyaya-Nugewika of the active part played by mind in the development of knowledge.

The conception of the perception enjoyed by ascetica is also found in Dignaga and Dharmakirti who provides for four classes of perception—sense perception mental perception, self consciousness and the perception of ascetica. The second and third classes in his division fall into the sphere of activity of mind in perception in the Nyaya Vargenka theory. Dharmottana adds that the perception of ascetics is essentially indeterminate

1 NB, p 103

1 NBT , PP ~-16

CHAPTER III

INFERENCE AND COMPARISON

1 The Development of the Doctrine of Inference and Sullogism.

Though Gautama stands at the head of the school of Nyaya on the essential doctrine which is normally isociated with logical inquiries he has extremely little to tell us but his testimony is the more valuable in this above the gradual development from mere dielectics to logic. Natsylvana stands on the same level as his master in his exposition of the process of reasoning is extremely subtle hard to understand and only to be mastered by one of much lean mig and ability. The admission is important as it makes it easy to realize how difficult were found the first steps to understand the first and it erial nature of logical reasoning even when the formal procedure was well established as it was in Gautama's a time.

Gautama lays down that there are five members (anagare) of a syllogism namely the proposition (pratty a) the reason (help) the example (udaharar a) the application (upanaya) and the conclusion (niga mana). But Vatsy ayana reveals that others russed the number of members of the syllogism to ten and it is probable epough that this represents a view prevellent before Gautama and that his contribution to the de

velopment of the topic included the removal of these members which in the conclusion have, as his commentator observes, no just place but pla a part in the discussion of a topic. These are the desire to know (jijinas) the doubt (samquja) the behef in the possibility of a solution (samquja) the behef in the possibility of a solution (samquja) the burpose in view in attaining the conclusion (prayogana) and the removal of doubt (sai quya vijidas). With its full ten members we have before us in minature the course of the kind of discussion which preceded the development of formal investigation of the logical process and we can recognize the substantial improvement involved in omitting all that did not directly bear on the attainment of the conclusion.

In the later logic of the schools the scheme of Gautaria is illustrated by the formal syllogism

The hill is fiery

Because it has smoke

Whatever is smoky is fiery like a kitcl en

So is this hill (smoky)

Therefore is the hill fiery

The argument therefore tests on a _entral assection of the concomitance (regards) which exists between smoke and fire But can this generalization be attributed to Gautaina himself? The answer must assuredly be in the negative. The only principle laid down by Giutaina is as follows? The reason proves what is to be established through its similarity with the example not through dissimilarity. The example has the chaine tensities of the thing because of its similarity with it or has not the characteristics, because of dissimilarity.

477 Gauganati Jt a MS 1 385 n NBh pp 4° 48

i Cf Bladrabibus 10 nember argume t for Janam Med Leg
pp 6 ff wich lavever is very different
t. 1 84 6 Athalye TS p ° 9 Jacob AGWG 1901 pp 469

It is impossible to resist the conclusion that the third nember of the syllogism is nothing more than an example, and that the original process knew no formulation of a general rule. This conclusion is supported not merely by the fact that the term example is only with great difficulty to be reconciled with a real general proposition but by the form of the syllogism in its fourth and fifth members which run in the original Thus is this (tatha cayam) Therefore thus (is it) (tasmat tatha) The summing up in the application is expressly said by Gautama to be dependent on the example and this is entirely borne out by the word thus which can only be referred to the word as in the example 'as a Litchen (yatha mahanasah) as the example originally ran 1 Similarly the thus in the fifth member of the syllogism is only to be explained as a reference to the as of the third. In both cases however if the third member had the full form which it possesses in the later system the reference would be unintelligible With this conclusion accords perfectly the literary use of the syllogism the last two members are not used and the third appears merely in the reduced form of the example while in Vatsyayana where it is hid existed the general proposition would have been expected to appear it is never found although he frames many syllogisms especially in Ahmika I of Book V in his commentary the most that he does is to adopt the form It is observed that the kitchen has smoke and nlso has fire The fact that reasoning can only be ly means of a general proposition had thus not yet been appreciated in the school for this reasoning still was from particular to particular ty analogy in the manner approved ty J S Mill The origin of the syllogistic

¹ Originally presumably & Augum

form can then be recognized as arising from the effort to expound a proposition to another the proposition is stated, the reason for it is asked, the ground is given, its validity is called in question, an example familiar and therefore eogent is adduced and the similarity of the subject to the example is emphasized and the conclusion is finally drawn. It is characteristic of the conservation of the schools that the scheme was retained long after it had ceased to be the real form of the reasoning employed.

The other important contribution by Gautama to the theory of the syllogism is contained in the solitary uphorism 1 devoted to the conclusion which thus fares badly compared with the members of the syllogism to which eight aphorisms are devoted while fallacious reasons have six There inference is declared to be dependent on perception (tat purvalam) and to be of three kinds-purrayat, cesarat and samanyato distam These phrases are in themselves hopelessly obscure, and Vatsvayant gives two explanations of fundamentally different character, a fact which may be interpreted either as indicating that even before Gautama there were different views prevalent in the school, or that there intervened a considerable interval between Gautama and his follower during which conflicting interpretations of his aphorisms had come into vogue. According to the first of these interpretations inference purioual 'as formerly , is inference from cause to effect thus from the sight of clouds it is inferred that rain will fall Inference ceratut is from effect to cause as when from the swelling river it is inferred that rain has fallen

^{1:115} Other views are given by Yacaspati and by Uddyotakara, tc, who prefers the idea that it is inference from something commonly seen, e.g. water from the presence of cranes, cf SBH vm 3. The reading the act is impossible

Inference camanyato dista is illustrated by such a case. differing from the two previous as that in which from observing the different positions assumed in the course of the day by the sun we conclude by analogy of ordinary motion that it moves although such motion is not open to our perception. The second explanation offered by Vatsyayma makes puratat an inference based on previous experience of the concomitance between two things, such as smoke and fire which we still therefore accept later on when we no longer have the actual perception of the concomitance before our eyes Cesavat is proof by elimination thus sound can be proved to be a quality by showing that it must be either a substance, quality, or activity, and that it can be neither the first nor the last, and therefore must be the second Samanyato drate is an inference in which the relation between the reason and the consequence not rerution between the reason and the consequence not being a inter of perception, something which is not perceptible is proved to exist by virtue of the abstract similarity with something else of the reason a definition which is randered more intelligible by the instance adduced which shows that the self or soul is proved to cast by the fact that desire ac are qualities and that qualities must abide in some substance namely, the 2100

It is doubtful whether either of these theories has any claim to represent the true state of affairs, for in an obscure aphorism in a liter part of his work.\(^1\) Gautama refers to objections to inference based on the fact that it sometimes insleads thus to the argument that if we see a river swollen we infer that there has been rain may be of jected that the cruse may be an embankment

¹ is 1.8" ... Jacobs NGWC 1901 p. 4" N N1 pp. 88.8" NV pp. 2.3-5. The asswer in 1818 on the specific character of the facts on which informed 18.1.8 sed

to the argument that, if we see ants carrying off their eggs we infer there will be rain may be objected that the real cause is that some one has damaged their nest while, if we infer from the scream of a peacock the coming of rain we may really be hearing a human cry, from which no such inference can be drawn. It can scarcely be denied that the three instances given must be deemed to correspond with the three forms of inference previously defined, and in that case it is clear that to Gautama inference purvavat is from the later to the earlier from the effect to the cause, and that vice term inference cesavat is from the earlier to the later but the precise sense of samānuato dista must remain obscure perhaps denoting similarity as a basis of inference. It is difficult to doubt however, especially in view of the tradition and the use of the phrase later though in a different context by Pracastapada that the term applied to some abstract form of reasoning in which perception could not directly be applied

This conclusion receives reinforcement from the further development given to the scheme at zone later period for which we have the solitary testimony of Vacaspati Migra in his exposition of the Samkhya system. The decisive advance made is that the three forms are reduced to two classes the first of these styled direct (tita) comprises province and sumanyato direta, the second styled indirect (artia) is comprised by general. The latter is a means of proof by elimination, and is used to establish for example the Sunkhya doctrine of the pre existence of the effect in the cause, the clay and the pot are one, because neither the relation of union or separation between them is possible, for, if they were different, then they must either be in a relation

¹ Burk VOI xr 231 61, of the use of rete and ords in NV, p. 126, Vijeanabliksu, SS j 103

of union like the pot and its contents, or in one of separation, like two mountains, neither of these con ditions is the case therefore clay and pot are one 1 In the same way the existence of the soul is established by the argument that if it did not exist there would be no self consciousness which is manifestly contrary to fact Between the two forms of direct proof the difference consists in the nature of the knowledge which results, not in the process itself. In paracrat thit knowledge is concerned with a general principle which is perceptible, in samanyato dista the peculiar nature of the knowledge. involved lies in the fact that the general relation exists, but is not open to perception (adrelasvalaksana samānya as opposed to dreta valaksana samanya)" The form of inference previous is of minor importance to a system which is concerned with higher things than those of sense the other form of direct proof is invaluable to establish such things as the existence of the soul. All that has the characteristics of joy sorrow and confusion it is argued, is guided by another like a chariot by the driver, all the world has these characteristics therefore all the world has a ruler Or, aguin thus we can prove that the perception of colour requires sight, perception of colour requires an instrument namely sight, for it is an activity, every activity requires an instrument, as felling trees requires an axe, perception of colour is an activity, therefore perception of colour requires an instrument. The skilled use made of the arguments is obvious but it must remain doubtful to what school is to be ascribed the adaption to this end of the older division of the Nyaya. It is plain that it existed before Vacaspati Mirra, and it may be that it was devised by some member of the Nyaya before it was

¹ Cf NV., p. 234, which favours the early use of the argument.
² Cf PSPM, pp. 47, 48

³ Courte Vacaspation i, 1, 35,

adopted by some adherent of the Samkhia. The failure of the doctrine to become accepted in either school is clearly remarkable, for it plainly offered a convenient means for giving effect to the traditional theory more explicitly than was done by the contending view of its significance But, of course, it would be a mistake to seek to find in it the parallel of the distinction between induction and deduction in the terminology of formal logic 1 the character of the reasoning corresponds strictly neither to deduction or induction, and the distinction between these two forms, in itself of no ultimate importance, is not reproduced in any form of the Indian doctrine To Gautama it is clear the distinction could not possibly have occurred, content as he was with reasoning by analogy from particular instances

The terminology of Gautama and of Vatsyayana naturally reflects the stage of their researches the normal terms of the later logic, palsa, palsadharmata vuanti. anvaya, vyatirela, and paramarya, are unknown to the Sutra and the term sadhya,2 which later denotes the conclusion to be proved of the subject has the not unnatural sense of the subject itself as that of which an attribute is to be established

If the early Nyaya school had made little progress in the scientific examination of its subject, it is not sur prising that Kanada, whose interest was essentially in reality, has little to add to the doctaine of inference The fact that he mentions in the chief passage in which he touches on the matter the technical term arayara. which denotes a member of the syllogism, and in the

¹ Jacol 1 Gutt Gel. Anz 1895, p 204 Garbe St Llya, pp 153 154 Reck. VOJ xv 262, 263 Max Müller S. Systems, pp. 497 500 . Sunl Intr., p. 414 2 Cf Ganganāti a Jha, NS i 45., NBh., j. 41

^{1 1}x 2 1, 2, ef m 1 " 14

context has the meaning example, is a clear indication that he contemplated logical doctrine much as it stands in Gautama. His own interest is devoted to a statement of the real relations which affold the basis of the logical relation between reason and consequent. They are enumerated as cause and effect conjunction, opposition and inherence inference can be from the effect to the cause of the tests.

2 Pracastapada and Digniga

In Pracastapada's exposition tof Lanada's doctrine of inference an advance of first rate importance is made The attempt at an exhaustive enumeration of real relations as a basis for inference is abundoned in favour of the wider conception of concomitance (sal acurya in his terminology, as opposed to the later wapti) between the ground (sahacarita, arinabhūta, later vyapta or ryapya) and the consequence He does not however admit that this is an innovation, he claims that Lanada's list of real relations is not intended to be complete but illustrative, every form of relation being meant to be included. His own doctrine is simple", if anything is indissolubly connected with another in time or space at as legitimate for us finding ourselves confronted with one of the two to conclude the existence of the other also. The affirma tive judgement is therefore analysed as follows a man first takes cognizance of the connexion of fire and smoke expressed in the propositions. Where there is smoke then there is fire, in the absence of fire there is no smoke', and when he sees smoke so as to have no doult of its existence, he proceeds to conclude the presence of

I Jacobi NiWO 1901 pp 4-9 ff Sicherbatska Museon v 133 ff.

p. 205 of Kumarila ÇV pp 202 ff Nova p. 5 sampiopirinal

deltering parting middlesselfulanom annochiam f EPIL, pp. 43 ff

fire There is no departure from the realism of Kanada lut the precise list of real relations which he expounded has proved to be too lumted to meet all neels ind a more general relationship has been propounded which covers such cases as the appearance of one set of lunar mansions at the setting of the other, or the inference of the presence of water from the sight of cranes

In close connexion with the new conception stands the account given by Praçastapada of the conditions for the validity of the reason or middle term as a means of proof In his account he cites I as a view of Kacyapa the rule that 'that middle term is capable of producing a correct conclusion which is connected with the major. present in similar cases, and absent in dissimilar cases, a classification on which a theory of fillinges is based This theory goes it is certain far beyond hanada who knows two kinds of fallacy only but later tradition assumes that Kuçyapa 2 18 a reference to Kanāda by his family name and it may be regarded as proved that Praçastap da intends us to accept the view set out as What remains doubtful is whether in this he is deliberately attributing to the Sutra a view, which he desired to read into it or whether the process of change dates from before his time. It is a point in favour of the latter theory that he himself puts forward four classes of fallacy but this is not of decisive weight is of importance however that concomitantly with the doctrine of defects of the middle appears one of defects of thesis and conclusion a treatment which is almost peculiar in the school to Praçastapada.

A further important innovation is the appearance of the distinction wholly unknown to Gautama and Kanada of the process of inference for one self (swing citartha) and for another (parartha) The distinction is one which is accepted by the syncretist school though not idented by commentators on the Nyava like Uddyotakarı and Vacaspatı Mıçra, who remain faithful to the texts they explain. It is clear that for him the inference for oneself was the only true form of inference after defining it he proceeds to show that the other means of proof beside perception and inference allowed by the Nyaya and Mimansa schools have no claim to separate rank and can be included in inference. This form of inference he divides into two classes 1 in contradistinction from the three which the Nyaya set up namely dista and samanuato drata The former is the form of infer ence when the middle term and conclusion " are not heterogeneous, the latter is the form when they are heterogeneous, and the result depends on an idea common to the reason and the conclusion. The distinction, though far from clearly expressed is evidently between matters of inference which fall under the sphere of sense perception and those which escape that test, and there fore must rest on abstract reasoning. The definite acceptance of this doctrine by the Vaicevika stands in harmony with the acceptance in place of the crude realism of Kanada of the wider idea of logical connexion. with a more vacuely conceived physical counterpart

The inference for another is definitely identified with the five member syllogism, which in Gautama forms a category, and is not classified formully as a means of proof though inference itself is so classed. The numes

¹ p 205, se NSåra, pp. 5, 93 ff.

[&]quot;Jacobi (AGWG 1991, p. 481) and Suah (1992, p. 417) render promodulated/spaped as referring to the subject and example but this is context to the analogy of someogute eries in the Nyaya et apropose to the application of the subject of the subject of the number of the pp. 301 ff the double invision is discussed. TR pp. 81 82 PoPM, vol. 4. "As

of the five members, however, differ from those given in the Nyaya school They appear as pratifia apadeca nidarcana, upasamdhana and pratyamnaya the first alone therefore coinciding with the Nyaya names It is not probable that the new terms were the invention of Pragastapada the second the name for the reason is given by Kanada 1 himself The different terminology may be interpreted as denoting some measure of independence of the Nysya in the development of love in the Vaicesika school but too much stress cannot be lul on this conclusion, the influence of the Nyaya is plain on Pracastapada, he divides the example into the two cases of similarity and dissimilarity 2 which precisely reproduces the older division of the Nyaya and follows its piecise terminology. But the treatment shows one great distinction which is the inevitable result of the new conception of invariable concomitance. In the third member of the syllogism the principle is expressly set out and the example sinks to the level of an illustration though not until the last days of the schools was the further step taken and the example omitted as super fluons.

With these changes the whole system of the Nyaya appears ir insformed, what was a mere technical discipline has been changed into a deliberate effort to formulate the principles involved in inference and the result achieved is largely adhered to by the following authors of both schools. As yet however the terminology of Prayasta pada differs largely from the later norm nothing shows this more clearly than his avoidance of the terms wants, supuka and yapaya, or yaksa, upuka and yapaya, or yaksa, upukasa and

¹ ii 1 14 2 This II e Mimiñsa rejects, PSPM, p. 51 QD, p. 44 2 Jacobi NGWG 1901 p 482, Steherbriskoi M seon v 150 n 3,

³ Jacobi NGWG 1901 p 482, Steherbatskoi M seen v 15° n 3

recuracy his tenets. Some of his precise arguments are also given in Uddyotakari s commentary, the attribution to Dignaga being vouched for by Yacaspati Migra so that it is possible to form a definite view of his contributions to logical theory.

The date of Dignaga is obviously of the neatest importance for this question but it is involved in obscurity The tradition of his life preserved in the Thibetan Lama Taranathas History of Buddhism ascribes his place of birth to Kai ci now Conjecterum in the Madras Presidency and makes him the son of a Brahman Taught by Nagadatta of the Vatsiputriya sect he became expert in the doctrines of the Hingyana school of Buddhism but later acquired from his teacher Vasubandhu the brother of Asanga knowledge of the doctrines of the Mahayana school and in special of the idealism (\ manavada) of which Asanoa an l\ asab indhu were the leading representatives. He defeated his opponents in disputes at Nalanda travelled widely in Maharastra and Oressa and finally died in the latter country If the record has any claim to truth it enables us to assign to Dignaga a date shortly after the floruit of his teachers and in fact on the strength of arguments which seem to make A D 480 a plausible date for \asu bandhu Dignaga has often been assigned to the early part of the sixth century A D ? This view however can hardly now be maintained for there are strong reasons to suppose that Vasubandhu can more safely be dated in the first half of the fourth century A.D 2 so that Dignaga may have flourished before A D 400 A famous verse of the Meghaduta has been interpreted by the ingenuity

¹ Takatusu JRAS 1905, pp 1 ff

¹ N Perl, Bull det Ecolef unqui sed Exisme-Orient 21 3.5 ff of Keit) JRAS 1914 p. 1991

^{- 1 24}

of comment stors as a reference to the logician's heavy hand and if the tradition is accepted it would tend to confirm the date suggested for Dignaga, since Kahdasa is more probably to be dated at the end of the fourth than of the fifth century. But there is no cogenit ground for accepting the tradition. It is however, clear that, so far as chronological grounds go there is nothing to prevent the supposition that Pracastapāda was indebted for his system largely to Dignaga whose fame is attested not merely by the attacks of the Nyaya school but by the onslaught of Kumārila Bhatta the famous Minnasist, and his commentator Pārthasaiathi Migra and the criticisms of Jain writers like Prubhicandra and Vidyanāthi.

The Premānasamuccaya in his treatment of topies dready presents a close similarity to Priçastapāda, It is divided into six chapters, the first dealing with perception, the second with inference for oneself, the third with inference for unother, the fourth with the three characteristics of the reason or middle term and the claim of computison to be a sepurate means of proof which is distillowed, in the fifth verbal testimony is similarly rejected, and in the list the parts of a syllogism are treated of The Hetwakrahamaru contains an interesting examination of the different forms of syllogism with a view to determine which are valid and the Nyayapratepa illustrates fully the different forms of fallacy.

The essence of the doctrine of Dignaga is the exposition of a theory of logic, in modification of the established doctrine of the Nyan to harmonize with the funda mental idealism of the school of Asanga. The views of Asanga were historically a modification of the extreme scepticism and millism of the doctrine of vacuity (canguarda) which is associated with the name of 100

Nagarjuna 1 While Nagarjuna deduced from the utter incompatibility of our ideas that there was no reality either beyond them or in them the new doctrine was compelled to admit that so radical a doctrine contra dicted experience too widely to be acceptable and it fell back on the theory that while there were no realities external to the mind nevertheless thought itself was not unreal though in accordance with the essential tenets of Buddhism they could not admit the existence of a soul This thought for them assumed two forms consciousness proper (alaya vin ana) which lasts until the individual reaches Nirvana and which serves in lieu of the substantial soul and the thoughts of the individual about things (praintti in iana).2 It seems however that Dignaga s 1 logic went beyond this standpoint his doctrine of perception manifests elements which are not in harmon; with the view that all reality is thought.
As has been mentioned be distinguished perception sharply and definitely from imagination and declared that what it give was what was nathout name class &c an idea which recurs in the indeterminate perception of the schools Whereas on a strictly idealistic theory in the ultimate issue perception sl ould not have remained distinct from other mental processes the appears to late held the view that in it man came into contact with a reality which though lasting but an instant (lear i) was in truth ierl (rustu panciarthased) but at the same time, because of its momentary character was

¹ M dhjamika Sira (B bl. B d li. 18) M Walleser Demiliere Lahre des Nag., na. Heldelberg. 1911. 1912.

t Asanga Mahaya and refa ik ra (ed an lir S Lévi Par v, 190 1911)
1 90 SBE xxxiv 463 4°7 de la Vall e Pouvan Bouddh me p 20
2 Steherbrisko Muno v 16° 4 NBT pp 4 14 20 above
el 11 41

^{4 478 14 0 5 9} CA fb 1014, 1634, Waysha x 14, 124,

never knowable. For the actual formation of any idea to the datum of perception or sensation there fell to be added the working of imagination (tikalpa) a conception which is, certainly not without justice to be compared with the Kantian doctrine In a similar strain Dharma kuti develops a doctrine of perception which he defined like Dignara as distinct from imagination but qualifies as without error (abhranta) 1 In perception there is a two-fold object that which is immediately apprehended or contributed by the datum (grahya) and that which results from the operation of thought (niccaya) set to work by the force of the apprehension The first corre sponds to the momentary element the second to the series of momentary impressions (kana samtuna) as they are worked up by thought into a unity and this is what is known not the momentary impression which hes beyond knowledge 2 According to the proximity or remoteness of an object of perception the perception varies this is its peculiar characteristic (see lakeana) and proves it to be a reality (paramarthusat) and it shows that it possesses practical efficiency. In this view there is further advance towards an assertion of the reality of something beyond thought, but the position is not meon stent with that of Dignaga 3 and it is clearly analogous to the view of the Vaibhasikas who appear in the Sarradarcanasamgraha as adopting the terminology of Dharmakuti

For Dignaga therefore the whole of knowledge despite its contact at one point with an unknowable reality, is made up of ideas involved in both perception

¹ NB., p. 163, cf on ladyowi NV, pp. 43-5 TR pp 60 61 above ch ii, § 1 SBNT pp. 32-6
2 NBT p 16

³ Cf Jacobi J 108, xxxi & n 1, whose view that the hanaxami na is pure diritared seems to be untenable, scaladjens is not the samiling, DBT p 1 NV 1 44

and inference these ideas are the product of our mental activity (prapanaçaktı, prāpaka vyāpara), and are not created by any external cause. In a passage happily preserved for us by Vacaspati Migra 2 he denies emphati cally that there can be any real thing indissolubly con nected which can be the logical ground of anything, since the relationship of logical reason and consequent does not depend on external reality, but on the relation slup of attribute and subject which is a creation of the mind The ideas thus obey laws of connexion not imposed by reality, but by the action of our own thought (buddhy arudha, niceayārudhu 2), and thus a miori in character The nature of these laws is further made explicit by the division of the syllogism on the basis of the relations of identity, cause and negation. It is impossible to ignore the principle underlying this division it corresponds to a classification of judgement based on the relation of subject and attribute first into positive (vidhi) and negative (anupalabdhi = pratisedha) while the positive judgement is then divided according as it is pased on identity i e is an ily tie (evalkavanumana) or is based on causality, empiric (kāryanumāna). Reduced to a Kantian form we can recognize, without too much pressing the ideas a priori of substance and attribute being non being identity, and ciuse, a list which has sufficient affinity with the Kantian categories to be more than a mere currosity of speculation. All

¹ NBT, p. 15, cf p 16 samtana era en p ut jaksasya pripan yak.

our ideas or the objects which we know are indissolubly linked with one another since they are either inferable from them by menus of analysis or related as cause and effect. The real iclations between the unknown things which lie beneath our knowledge are indifferent to us and have no part in forming our ideas.

The division of the syllogism in this way is not recorded of Digmaga and by Suregvara* is expressly diributed to Dharmakirti This item is confirmed by a passage from Dharmakirti quoted by Qridhara* where it is said. The rule according to which there exists and midissoluble connexion between ideas or objects does not arise from observation on non-observation but from the laws of causality and identity which have a university application. There is of course nothing inconsistent here with the view of Digmaga, which rather acquires greater precision by the new matter thus added

The theory of the ideal nature of the indissoluble connexion which has at the base of reasoning thus presented stands in close relation to the ideals to sew of the world of the Yogacara school and therefore there is a priori no ground for supposing that the idea was borrowed by Jigana, a from Pragastapad or from one of his piedees sors. In truth it is obviously easier given an idealistic hypothesis to conceine an indissoluble connection which it lies in the power of the mind to impose than to arrive it such a result from the standpoint of realism. How can it possibly be said on the basis of our imperfect experience that things are indissolubly connected?

¹ Steherbatskoi Miseo i v 114 Cf SDS p 6 k nt Kril k d r re en Ver 1/11 1 80 ff 235 ff

² Brhadarenyahatattha, ch vi Pathik JBRAS xvii 9° so Munisundara ibid xiz 5° It is criticized in TR, pp 8° 4 ³ NK p 207 Musson i 56 TR, p 8° SDS p 5 Deussen s

⁻ An p zer Musson 1 to 1 K. p 5" 5D5 p 6 Denssen s rei der ng (Allgem Gesch I ili 204) is impossible ef Padartharalmamäl , p

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Pragastapada does not attempt to answer this problem the theory of a peculiar variety of perception (Jūnua Lukana) is a later effort to meet the need of an explanation of how a universal connexion can be assumed from experience A priori therefore it is more reasonable to assume that Pragastypada owes the principle to a school in which it had a natural right to exist. The argument 2 against this view that, had the Buddhists invented for themselves the concept of indissoluble connexion they would never have set up the real categories of identity, crushity and non existence, which on the other hand are comparable with the older Vargesia, list of Kanāda Joses all its tonce when the true nature of these divisions is realized increover the argument is based on ignorance of the fact that the doctrue as it first appears in Dignaga has not this addition

There is however, positive evidence that the initio duction of the idea of indissoluble connexion is a recognized in the Nyy is school as due to Dignigal Uddyotakara area area for the inition of something as indissolubly connected with something else those the inition of something as indissolubly connected with something else that, as in the Buddhist view everything is indissolubly related to everything else the knowledge in question of a thing as indissolubly connected is no more than knowledge sins phrivas and not inference. Now not only have we the assurance of Vacaspati that Uddyotakanas criticisms are uswilly directed against Dignagi but he actually assigns the doctrine imprograd to that utilization.

Stel erbatskoi, Mis on v 184 45
 Jagobi, NGWG 1901 p 483

⁵ NV p 56 Cf the Samkhya definition SS 1 100 an older definition is given in NV, pp 09 60

[•] NT pp 1 127 NVTP p 28

and explains that it stands in close relation to his theory of knowledge which admits as the basis of reasoning the power which the understanding has to create its own objects distinguishing in them the aspect of subject and attribute while not dealing with real relations. It is significant that here and elsewhere Uddyotakara 1 admits that there are exceptions to the rule of indis soluble union even in the case of smoke and fire since not only does fire occur without smoke as is generally admitted but also smoke without fire which contradicts the fund mental assumption of the stock syllogism of the schools In yet another place Uddyotakar 1,2 dealing with inference from effect to cause discusses and rejects the idea of indissoluble connection and Vacaspati 3 ag un attributes the doctrine to Dignaga, and emphasizes its accordance with the Buddhist theory of knowledge There is also a significant verbal similarity in the account of indissoluble connexion given by Ping istapadn's with that of Dignage as reported by Uddvotakaia

In Dignaga and in Dharmal irt's we find clearly expressed the three conditions which must be fulfilled by the middle term if the syllogism is to be correct the conditions being further used to the purpose of explaining the clusses of defective middle term. We find the fact recognized clearly in Uddyotakana, who criticizes the doctrine evidently as learspit a sasies us us he found it in Dignaga himself. The formula rums. The middle term must be present in the subject also in similar cases rund be absent in dissonibler cases. The

¹ NV p 50 ef S reylars in JBRAS xxxx 1 0° v 2° 2 3 NV pp 60 4 7 NVT pp 120 2 ° p 200 persel the engages (pres ddds tols a usps NK) = adt dah (e mass prides adt NV p of) 9 Met Loop pp 91 ff v NV pp 85 50 9 NVT p 1

critic objects that the language should have made it cle ir that the middle term must be present in the whole extent of the subject and not in part alone, that, while it must only appear in similar cases, it need not appear in each of them, and that it must be absent from all dissimilar cases The numee indicated is expressed in Sanskrit by the word ext and Vacusputa assures us what would otherwise be plausible that the formulation of the doctrine of the three conditions has been affected by the Buddhist doctrine of the negative or rather iclative signification (upola)1 of words On this view a worl has not the power (culti) attributed to it by the Mimans, to communicate to objects the verbal form under which we conceive them, or to express the real nature of anything at merely serves to distinguish at from other things and in a proposition in view of the necessity of making clear the precise implication of terms it is u uil to append era to the word to which special agmificance attaches as a mode of reminding the hearer or realer of the need of attenling to the implicacation. Now it is becorded that in this special case Dharmakirti criticized Dignia apparently because the litter held that one ext was sufficient to bring out the full implication of the rule regarding the three con litions of the middle term while Dharmakirti held that in each case the important term must be stressed in this manner and in face of this fact Uddyotakara's criticism reveals clearly its Buddhist origin which is the less surprising since we now know that Dhaimakirti and the Uddyota kara were contemporaries

Yet a further proof of the dependence of Pragastapada on Dignaga may be derived from the fact that the

¹ Rainakirt Apolauddh SBNT pp 1 19 Stcherbatskoi Muson v 165 7 CV pp 220-828 NK pp 31 20 Atnalatear rela pp 80 48 51 NT, pp 340 ff NBT p 4 NV pp 324 ff

distinction of reasoning for oneself and reasoning for another which gives syllogism, is present in Dignaga and is expressly stated by Dharmottara in his conmentary on Dharmakirts to have been introduced by him, and to stand in relation to his theory of the function of language in knowledge Denying as Dignaga did the authority of either the socied scriptures of even of a master, he reduces the authority of verbal testimony to its true character In the Pramanasamuccana 2 the rejection of verbal testimony as a separate and inde-pendent source of knowledge is based on the argument does enedable testimony me in that the person averring it is enclible, or that the testimony is credible? If the former it is mere case of inference from the credibility of the speaker in the latter, it is a case of perception In the work of Dharmottara the same view of the credibility of testimony is emphasized in a new form testimony is a product of the true external fact with which it is immediately connected Thus the syllogism in so far as we draw from it true knowledge is not a source of knowledge by reason of its words but by reason of the facts on which these words rest z syllogism therefore, is a source of knowledge only m a metaphore sense (augmental) for it is the facts, not the words which are the source of knowledge Pragasta pada's debt to Dignaga in this regard is clear, despite his slight change in terminology 4 which may legitimately be attributed to a desire to concerl his borrowing, for he retains in practice if not in theory verbal testimony as a separate means of proof, while adopting the principle

¹ NB1 , 1P 46, 47

² Mel Log, pp 88 81, entireized in V p. 63 Cf \Sara communitary p 01
2 NBT, pp 63-5 kdryal Tonjam an imanam pravalnam jalidam : ef

² NBT, pp 63-5 kārpal āgajam an emānam pramānam sāldam 2 PBI, p. 213 4 sean satīrka in lieu of sedrika Nairs, p. 3 laa rote bi

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of distinction between reasoning for oneself and reasoning for another which in truth rests on the fact that verbal testimony is no true means of proof at all

The same dependence of Praçastapada on the Baddinst logic can be traced in detail in the doctrine of fallacies, and it is significant that the alone accepts the fallicies of the subject and of the example which play a marked part in the logic of Dignaga. Nor is it fanciful to exerble to the same influence the adoption by Praçasta pada of the form of exposition which he uses, and which makes no effort in the manner of Vatsyayana to follow the order of the text of the original Sutra. So deeply indebted was Pragastapada to Dignaga that to ascribe this point also to his influence is natural and convincing

To preserve the theory of the priority in invention of the conception of invariable connexion to the Vaicesik i school we should be compelled to postulate its appear ance in that school at some period before Dignaga and assume that the tradition of its discovery had been lost so early that Vacusputi Miera found no trace of it in the works which he could use in compiling his treatise on the Nyaya The conjecture in the absence of any positive evidence would be unsatisfactory, and the originality of Dignaga is supported by the fact that we can truce in his immediate predecessors an interest in the problem which suggests that it formed the subject of investigation to an extent likely to result in the piecise formulation of the true doctrine. Thus from Chinese sources we know that Maitreva who is stated to have been a teacher of Asanga, framed the syllogism as follows

Sound is non-eternal Because it is a product

Like a pot but not like ether

A product like a pot is non eternal

Whereas an eternal thing like ether is not a product

Asanga humself framed the fourth and fifth of these clauses differently so as to run

Receive a pot is a product at as non-starnal so as

Because a pot is a product it is non eternal so is sound because it is a product

Therefore we know sound is non eternal 1

To Muticia therefore the argument was simply from instance to instance the form accepted by Assign though it still as based on the example, shows a clear effect to attain the general principle which alone is effective as a reason. In Digmigas* formulation the syllogism runs.

The hill is fiery

Because it has smoke

All that has smoke is fiery, like a kitchen and what ever is not fiery has no smoke like a lake. The retention by Dignaga of the homogeneous and

heterogeneous examples is interesting it recalls the rule of Gautama and is re echoed by Pragastapada

A further step is taken by Dharmakirt' whose or position in the Aydyabindu is divided into three parts only in hea of the six of the Pramar summerage namely perception inference for oneself and inference for another. He maintains that the example is no real part of the 4plogram since it is implicit in the middle term. In the reasoning. The hill is fiery because it is smoky like a kitchen, the term 'smoky which implies fire includes a kitchen and other smoky things and the example is all but unnecessary. Nevertheless the example is all but unnecessary. Nevertheless the example is as of an value in that it points out in a

Med Log , Pl "iff Suginra II ; de Log , pp 30ff

^{*} Med Log pp 3. The Using to be proved in his view is the lill as possessed of fire a view rejected in 3. pp. 5.4, in favour of smoke must fied by fire so PSIM p 4.5, as opposed to humarita.

² How Life Yasuban thu anticipated D ghagas lectring of reprinted and appear from a recently information. Med. Log., pp. 114-115.

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particular and therefore more impressive manner what

is supplied in the general proposition

With Dignaga and Dharmakirti the progress in logic
made by the Buddhists appears to have come to a head

it was the logic of Dignaga which was carried to China by the famous pilgrim Hiuen tsang who acquired it in the course of his long stay (4 D 630 45) in India and introduced into Japan by a Japanese pupil of his the monk Dohshoh! In India the Nyaya school was driven by the necessity of making healway against the new doctrine of the heretical school to revive the study of logic the movement taking form in the elaborate com mentary of Uddy otakara in which he sought to refute Dignaga The work however is not confined to this end it takes into account as was inevitable the views of Pracastapada on logic and it marks a definite stage in the process of amalgamation of the schools. Dharmal uti answered Uddyotakara but after him no new element of vital importance appears to have been intro duced into the study 2 The questions which have occupied the earlier writers were the subject of minute examination difficulties real and fancied were developed and explained in alundance and the doctrine received in Gangera's Tatteacentamans its final form save in detail. It was in this shipe that the doctrine passed into the syncretist school of Nyava Vaicesika all of whom save Civality a accepted the Nyaya lovic as the basis of their system without substantial change

¹ Siguita II do Log pp SSI

D gadge and D harokarti were n uch et care i in ofter sel cole
e g by Kamaraha at Suverçuar. The Ni ni haka sel col in log a j
mataphy, sea i keal owas il and inteaces (Nys) va sea kai fuserce
Pabhakara a dates unfortuntelly uncertain. It strad to note g SSI
vii 15,0 f ils poster or ty to Kumarila is uniplus the PSPM
pp 11 1" Uddyrotkara (e g N pp 55 56) er tie zes views I te his
on inhereace (PSPM pp 39 100) but not post to prove his norther

3. The Final Form of the Doctrine of Inference.

Inference in the normal definition of the modern school 1 is the proximate cause of the inferential judgement or knowledge (unumita), and this knowledge is of a special character, distinct from that attained in perception. To Buddhist logic 2 the distinction lies in the fact that perception gives, though inexpressible in words, the peculiar character (sta-laksana) of the momentary object, while inference deals with the ideal generality (samanyalaksana), but this view is not, as has been suggested, that of the Nyaya In the strict sense of the term, as Uddyotakara 3 points out, the peculiarity of the object is inexpressible, for all the terms denote at once generality, individuality, and form. Moreover, the doctrine of perception insists that in it we grasp at once generality and individuality in the determinate form, which is the only one known to us and all means of proof give us knowledge of generality, particularity, and that having it. The distinction between the knowledge we obtain by perception and that given by inference rests, therefore, on the fact that in perception we know the individual in its concrete detail as well as its generality, &c. in inference we deal with generality, &c., in an abstract form alone, we have on the one hand before us the crackling fire, on the other hand we infer the existence of fire past, present, or future as a generality connected

¹ TC, ii. 1 ft , SP., 41 142 53, TA., pp 17 19, TB, pp, 31 42, TK, pp, 10 12, TS, 55 44-51, BP 66 70 112 143, TR., pp 65 70 ¹ NB, p 101, Modh Tru, pp, 59, 60, 261, Jacob, NGW 6 1901, p. 462, n.2

³ NV , pp. 44, 45

^{*} NV, p. 5, NVT., pp 12 14; NVTP., pp 133-50, PBh., p. 156, NK., pp. 183, 190, 9DST. 67, cf CV, pp 282 93, 332-4, PSPM, p. 95

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with smoke and the precise detail of the fire which causes the smoke never appears to us

As the nature of the knowledge obtained by inference differs from that gained in perception so the inferential process differs from the process of perception An in ferential judgement is defined as the knowledge which is due to reflection or consideration (paramarca) and consideration in its turn is defined as the knowledge that the reason is an attribute of the subject and is invariably connected with the conclusion which is to be proved of the subject The definition of consideration is of first importance in the doctrine of inference and this is emphysized in an early doctrine recorded in Uddvo

takara which defines inference as consileration of re flection regarding the reason (linga paramarca) The process as explained by Keçava Migra is as follows the first stage in the operation lealing to inferential julge ment is the perception of the invariable connexion between smoke and fire a result due to frequent observa tion of the concurrence of the two in a kitchen or else where Then smoke is observed arisin, on the mountain

Flurdly through remembrance of the relation which perception has established between the smoke and the fire there arises reflection in the form that there is on the mountain smoke which is always accompanied by fire upon which supervenes the inferential judgement The mountain is fiery

The value of the conception of inference as a mental process is obvious and is enforced with minute detail by

the school Merely to set the two premisses The moun tain is smoky. Smoke is always accompanied by fire side by side would amount only to the assertion of

1 NV p 47 of Udayana in TR p 65 TB pp 31 2 36 or https://gad.uga* the frt and second slages being knowledge of emoke in the listance then knowledge of the concomitance NSM p 88

a perception actually present and the result of past per ception 1 The second premiss again must be made an attribute inherent in the first if there is to be any result for the middle term or reason must be brought into direct connexion with the subject 2 to be proved if there is to be any inference. It is not enough that the invariable concomitance should be made in attribute of the reason as in fact of course it is true that the reason and consequence are invariably connected but the mere fact is not enough for inference. There the knowledge of the concomitance must be simultaneous with the perception of the smoke on the mountain in other terms, the con comitance must be an attribute of the perception of the smoke on the mountain and not of the smoke in itself Similarly from another point of view stress is laid on the fact that the subject (pal a in the new terminology) cannot be a thing per se it must be something regarding which there is a desire to establish something else (sisadhayisā) for only then does it come within the sphere of inference. The desire may of course be for one's own sake or for the sake of some one else and it does not matter that we may have the same knowledge from some other source as long as we have the desire to establish it by inference

This recognition of the mental activity of inferring? as the decisive feature in inference leads to an important discussion between the older and later schools as to the precise factor which is to be deemed the proximate cause of inferred knowledge or in other words what precisely is to be deemed the inference as a process. The answer obviously depends in part on the meaning assigned to

of TS. 444, with Athalyes note palsaddariada of TC ii 40"-41 ASars p. 6. The reason is styled I lga, he'm, or sidhana,

Cf the modern dectrine + g Bosanquet Lone Bock II ch. vu 2511

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proximate cause (/ ar ana) Its sense in the normal use of language is instrument, and therefore one definition of Larana makes it to be a cruse possessing an activity (vyapāravat karanam) that is to say a cause which by means of its function or activity, produces a result Accepting this definition two interpretations of what is the real cause of inferential knowledge are possible. In the first place the view which is more or less clearly expressed by Kanada and emphasized in his commen tators that the cause is the reason or middle term may be held subject to the correction that the knowledge of the reason (linga juana) must be substituted for the reason (linga) This view is however rejected for the obvious reason that mere knowledge of the reason pro duces no inference it is only knowledge of the reason as existing in the subject and invariably concomitant with the consequence. In the stock example mere knowledge of smoke as such or as existing on the moun tain jesterday is no ground for the inference of fire on the mountain to-day the smoke is gone and cannot therefore since it has ceased to be become the instru mental cause of anything The other alternative which is the view of the older Nyaya followed by Vicvanatha? is to treat the knowledge of the invariable concomitance as the proximate cause assigning to it as its function the reflection (paramarça) which in that case must be regarded as consisting of the knowledge of the presence of the reason in the subject (palsadharmataji ana) The more recent theory is that adopted by Civaditya?

iii. 1 14 iz 2. 1 PBh p 201 TA p. 1" of lagadarpana as one view in NV, p. 47 conceivably a reference to PNPM p. 48

BP 66 of Pagal agusambandhasmri or that sided by perception of the concomitance as views in \V p. 47

^{1 116;} see hV pp 47 48 when this a ded by recollection of con comitance (i agai Igrambandae) is accepted

Gangega Annam Bhatta 2 and Laugaka Bhaskara who dopt the view that the cluse is that which immediately and always procedes the effect the reflection therefore which regulas the middle tain as in utilibite of the subject and invariably concomitant with the consequence is therefore the cause of inferential knowledge a view which is supported by an appeal to the firsts of languaged the term instrument applies naturally to some invariabiliting which can possess an activity not to knowledge whether of the reason or of the invariable concomitance

The view however, which thus insisted on a mental activity as the essence of inference was not accepted impressally the Minimizer adopted a view more akin to the concept of formal logic which sets the major and minor premisses side by side without insisting on the mental act of combination. But this view the Nyaya decidedly a objected to and definitely rejected on the simple but conclusive ground that the mene setting cache to propositions gave no result and that equally the memory of the concomitance and the perception of the piesence of the reason in the subject iemained fruit less unless they coalesced in a single mental act

The essence of inference therefore rests on the invariable concomiance (vyaph) between the reson or middle term (vyapya) and the consequence or myor (vyapa) terms which if perhaps in origin hiving a real inference are developed as logical for the school abundons via idea of estimation out in detail the real relations at the basis of inference. But reality's underhes inference and we must

TC 2 vy p v ç s apaksadharma d Nanam

² TS \$ 47, 2 N9M pp 86 87

The ryapaka need not be more extensive than the syapya 50 is ryapaka of 100

^{*} PBh p 201 TC :1 27 ft TR p 65 Tk p 11 TS 4 44

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ask how is the invariable concomitance known? In the first place we must admit that mere observation of con comitance in a special case or a few cases is not enough for logical purposes to attain certainty the knowledge of coexistence must be accompanied by the absence of knowledge of any contrary case 10 we must use the method of positive and negative instances. If a diserenancy can be adduced or is suspected then it must either be shown to be merely apparently an exception or the doctrine of concomitance must be admitted to be conditional (aupadhila) and therefore useless for logic If however no concrete case 19 adduced but it is argued on general grounds that not even all the cases which have been observed though numerous are enough to give certainty of universal concomitance the only reply is to show that a contrary instance is really impossible. This may be done by careful examination of the concomi tance itself which may prove to be irresistible or it may be shown by the use of the reductio ad absurdum (tarka) 1 The man who denies that from smoke we can infer fire is confronted with the result that he must contend that there are cases in which smoke is not connected with fire but arises from some other cause, which is con trary to all experience and he is driven to admit that after all we are entitled to deduce fire from smoke So for the moment we escape the danger of arguing in a circle which is obvious if we try to show that it exists because it is found in so many cases since for such an inference as for all others a concomitance is an essential prerequisite and ex hypothesi no concomitance has yet been established It is obvious however, that the question is not yet solved for the validity of our indirect proof in the ultimate issue rested upon concomitance

in this case a negative one so that the real chriacter of concomitance is as far from solution as ever

The definitive reply to the question of the mode in which a concomitance is known is, therefore, based on the view expressed in Gautama 1 that inference depends on perception but the crude idea which doubtless dominated the earlier view has made room for a more subtle doc time, in which supernormal or truscendental (alculida) perception takes the place of the simple contact of organs of sense and object When we see any object we see also its generality (samanya) including all other possible members of the class thus by this peculiu mental con tact (samanyalalsana pratyus atts) we appreciate the generality of smoke and of fire Further by yet another contact, whose characteristic is knowledge (manu luk suna) 2 we realize the universal concomitance of the two smoke and fire so that the moment we see smoke we at once have knowledge of fric as connected with it. This is not a process of inference for there is no possibility of the operation of reflection (paramarça) in its pro-duction and it differs from ordinary perception, as there is not a connexion between the object and the senses in ill the times and places in which the former exists. The n time of the reductio ad absurdum now becomes plain it does not serve to prove or create the knowledge of the universal concount ince, it is only accessory or contributing to remove doubts and to make the knowledge of the concomitance free from uncertainty. Nor again is

^{1 1 1 5} of CV, pp 58 ff, 200 ff SDST, pp 61 62 Proof by positive and negative instance is applied to every conceivable topic Cf SS v 28 ff Cf B Seal Post to Sciences of Ancent H name cl vii

¹ Above, ci. 11, § 3 Pancarskin is credited in SS v 32 6 with a view suggesting, that concount new is a mental concept imposed to things not an expression of a reality, but the value of so late evidence is minimal. The perception of generality is accepted in Miman's FSFM p 9 of K SSM, pp 81 ff.

the generality which we perceive a more mental figment in the view of the school of this period, it is an absolute itality. But it exists only in the individuals in which it appears and is not hypostatized as something apart from the individual substances or attributes or activities in which it reades.

The concountance as we have seen can be either positive or negative and in the normal case in regard to a subject and an attribute it is possible to establish both iclations Thus in the judgement, 'Where there is smoke there is fire we have a positive concomitance to which there is the negative counterpart 'Where there is no fire there is no smoke' The rule of the school to appen I the examples of both to the statement of concomitance is duly carried out in both cases, a similar case (sexil sa) is a case in which the conclusion i e fire is present but is smoke need not be present with fire a concomitance must be illustrated by something more a demonstrative example (distant e) 3 that is one in which not merely fire but smoke is present is in the kitchen. The counter case (conden) does not admit of such duality it includes all that has no fire and therefore all that has no smoke

In other cases we do not find the possibility of positive under the concomitance. In the proposition. The jot can be named since it is knowable the concomit unce can be positive only (levidiancipia) since while it is true that What can be known can be named the proposition. What cannot be named cannot be known cannot be established, since no probative example cut be adduced for it seeing that only of what can be known.

i saman assya tastuli tatoi TB p SI sr bla kas t sa bandho tunpih ibd p So belov ch vi \$3 Cf ÇV p 21° ° 2 Not in NS, but in VV p 48 TC ii 735 ff

³ Only tl a is recognized as val d for reasoning by PSPM p 51 CD p 48

can anything ex hypothesi be known On the other hand, in the proposition 'Laving organisms have soils, since they possess animal functions', there can be a negative concomitance only (Leada vyatire'ivn), since the proposition 'What has no soul has no animal functions cut be illustrated by the case of the pot but the positive proposition 'That which has animal functions has a soul cannot be illustrated since the conclusion has precisely the same extension as the subject and cannot therefore be found mywhere outside it. In the case of negative concomitance only it is impossible to adduce any example (sapalsa) in the positive concomitance only it is impossible to adduce any counter example (capalsa).

The relations thus stated may be illustrated by the accompunying diagram 1



The circle S represents the subject the circle M the reason and the circle P the conclusion (scall ya). The space between the circumference of S and that of P represents the whole field of examples part of which falls within part without the circle M, the former alone giving the probative example (distanta). All the space outside P represents the counter examples (ripal a).

¹ Jacobs, NGW G 1901 p. 466

the normal concomitance which is at once positive and negative (annuya vyatirekin) we have the positive sphere 'Where M there P, and the negative 'Where no P, there no M To represent the purely negative concomitance it is necessary to assume that S expands to the dimensions of P, in which case of course M must expand likewise, there then remains no room for an example and only a counter example is possible. To illustrate the purely positive concomitance it is necessary to assume that the encumference of P disappears and the possibility of a counter example is abolished

In place of brong the distinctions of positive negative positive only and negative only on the concomitance, it is also possible to classify the middle terms on the same principle 1 a 1 rocedure which does not differ in substance from the more natural one here adopted of treating the concomitance as the seat of the distinction. Applied to tended to produce results which were early criticized and which though ascribed 15 Gudham 2 to Pragastal ada would apparently not have been accepted by that author 2. It is a less scrous matter that the positive inference operates with a conclusion which is co-extensive with existence and thus departs wilely from the normal form of conclusion. The objections however to the purely negative inference (kerela v, etterskin anumana) are overwhelming. All the terms in it have the same extension and thus the essential characteristic of in ference the use of a general principle to demonstrate something disappears as there is no particular case to

¹ TC. it 785 9

¹ Nh., pp. 203 °04, Masso v 10 n 3

1 Ahp °23 I owerer, I e seems to adm ta krez ryst rakā argument
all appear in NSāra p 6 Th., pp. °080 below ch. iv § 2 N
pp 123-32 elaborately justifies all the cases.

SM pp 6" ff replying to Mimiliaska and Buddhist views.

which the principle can be applied. Moreover to arrive at a positive conclusion from a negative is in itself an unusual procedure, and if Pragastapada denied that either form was a correct syllogism he had much reason to support his action The Nyaya contends, indeed, that as every negation has a positive opposed to it there is sufficient positive element available to produce a reflec tion (paramarga) and to in luce a result but the effort is plainly unsatisfictory and unconvincing But the doctrine was held firmly against the contention of the Vedanta and the Minimusa that in such a case there was to be recognized the mental process constituting a separate means of proof called presumption (irthapatti) The stock example of this is the inference Devalatta though he is fit does not est during the day and there, fore must cat at malt. The 'yaya formulates the proposition as a purely negative inference. Devadatta eats at might because he is fat without eating in the daytime The positive concomitance. He who is fat without cating during the day cats at malit cannot be observed but the n gative proposition. He who never cats is never fat fills un hi our immediate experience Similarly the reduction I obsurdum in its formal aspect is defended by the Nyaya as an example of the purely negative inference

The validity of inference was assailed by the Carvaka school who maintained the impossibility of legitimately establishing an invariable connexion the Bud thist reply rests on an ideal construction as expressed in the concomitance not on a real relation A somewhat similar view is attributed in one version of the San Ill me

¹ TC. il 5 ¹⁰ ft. (13 ft. \\ \text{Ara. pp. 52, 53 cs. 4° TR. pp. 9° 101 \\
\text{Air p. 101 Kux. li 19 \SM pp. 5° 29 cf. KKK L. 31 -45.

¹ CV pp. *50 43 VP. p. 14 \text{ToTM pp. 6° Theses presumption on doubt \$\frac{1}{2}\$\text{ on inconsistency Ke th. JRAS 1916, p. 5° 0}

Sittra to Pancapikha probably without regard to historic fact as that author was probably anterior to the period of the discussion of concomitance. The Sutra itself assumes an innate power in the things which are concomitant. Cankary also admits the validity of inference, subject however to the superior authority of scripture which alone gaves us absolute truth while the Nyaya contends for the absolute value of inference as based on perception?

4 The Final Form of the Doctrine of Sylle jum

The syncretist school follow without question the doctrine of Prayastapady that there is a fundamental distinction between inference for oneself which is true inference and inference for another which is styled inference, therefore only by an analogy. Inference for another is the exposition by means of a proof consisting of five members of a thing which has already been assertanced for oneself. On mother words as stated by Dharmottaria, the inference for oneself is notional (prantimetally is opposed to that for another which is serbal (quidatimetal) though inhibe the Buddhust the logicalist of every the concept to the natural result of recognizing that there is no place in their system for the concept of verbal testimony as a special kind of means of two for Silogism therefor, is inference in a modified.

^{1 505} ch i KKK i 1818, SDS, ch li 58, v 27s with unreal tha, BS, n 1 11, 50 and i p 293 801 N, p 190 192 N, 250 Kus in 6-8 NSV pp. 76s JBRAS xx 51 s 7B, pp. 37, 38 TS, 44 TC in 689 ff cf CV, pp 188 207,

TB, pp. 57, 38 TS, \$45 TC it 689 ff of CV, pp. 18° 20°, PSPM, p. 48.

PBM p. 231, NSArs p. 5 Max Müller s ascription of the distinction to rhetorical ends is croneous (Sur Systems pp. 567 ff.), of

[\]SM , pp. 117, 118.

and second a v sense since it is the cause which produces in the mind of the hearer or reader the knowledge, of the universal concomitance which is the true base of infer ence In the Nyava view there is an essential distinction between the effect of verbal testimony and that of syllogism in the first place the information imported is accepted without any activity on the part of the heart in inference as communicated by the syllogism the hearer must perform the necessary mental operation which the teacher has already performed and which he now aids by syllogistic exposition the hearer to perform for himself. There can therefore be no yital distinction in principle between inference and syllogism any inference can be thrown into syllogistic form for one sown satisfaction if desired and it must be so treated if it is to be communicated to another. The difference therefore reduces itself to a difference of aspect the one deals with the process of inference the other with its formal expres sion or as Civadity at has it the one is characterized by substance (arthornometra) the other by sound or words (cabdar i patva)

Syllogism which bears the name $n_j u_j w$ then consists of a collection of propositions arranged in due order or in the formal definition of Gangees v an exposition which produces a verbal knowledge whence arises in the heart, the knowledge of the invariable concomitance, and of the presence of the characteristic in the subject knowledge, which is the last cause of inferioral knowledge. The number of numbers remains fixed at five in Gautama with the traditional names of proposition (prottipus) which states the subject with the conclavion as an attribute, reason (hetti) which ascribes to the subject the and the term which serves as the means of

1 SP . 6 154

FIG. 11 602, 602 For he so as reasoning generally of MY or 1 14

Sutra to Puñcaçikha probably without regard to historic fact as that author was probably anterior to the period of the discussion of concentration. The Sutra itself issumes an inmate power in the things which are concomitant. Qankang also admits the validity of inference subject however to the superior authority of scripture which alone gives us absolute truth while the Nyaya contends for the absolute value of inference as based on perception?

4 The Final Form of the Doctrine of Sillojum

The syncretist school* follow without question the doctrine of Preparity and that there is a fundamental distinction between inference for oneself which is true inference and inference for another which is styled inference therefore only by an analogy. Inference, for unother is the exposition by means of a proof consisting of five members of a thing which has already been assert named for oneself. On in other words as stated by Dharmottaria, the inference for oneself is notional (grantametally is opposed to that for another which is verbal (gabdatmaka) though unble the Buddhusts the logicius one carry the concept to the natural result of recognizing that there is no place in their system for the concept of verbal testimony is a special kind of means of uroof SURLo.ism therefore is inference on a modified

¹ SDs ch 1 KKk 1 181 ff SDS cl 11 SS v 2 ff with Anirad tha BS 1 1 11 B not pp 293 561 NV pp 100 192 Nk p 250 kus 11 6 8 SM pp. 6 ff JBRAS xx 54 ff 1TB pp 37,38 TS 540 TC 11 689 ff cf CV pp 18 20

PSPM p 48.

PBh p. 231 NSara p 5 Max Muller s ascr pt of of the d a function to r1 etor cal ends is erroneous (Six Systems pp. 567 ff.) cf. NSM pp. 11" 118.

^{&#}x27; NBT , p 21

and secondary sense since it is the cause which produces in the mind of the hearer or reader the knowledge of the universal concomitance which is the true base of infer ence In the Nyaya view there is an essential distinction between the effect of verbal testamony and that of syllogism, in the first place the information impurted is accepted without any activity on the part of the harren in inference as communicated by the syllogism the hearer must perform the necessary mental operation which the teacher has already performed and which he now aids by syllogistic exposition the heater to perform for humself There can therefore be no vital distinction in principle between inference and syllogism any inference can be thrown into sallogistic form for one's own satisfaction if desired and it must be so treated if it is to be communicated to another. The difference therefore reduces itself to a difference of aspect the one deals with the process of inference, the other with its formal expres sion or as Civadity a has it the one is characterized by substance (a) there patra) the other by sound or words (cabda) upatra)

Syllogism which bears the name ngug, then consists of a collection of propositions arranged in due order or in the formal definition of Gangeag 3 is an exposition which produces a verbal knowledge whence arises in the hearit the knowledge of the invariable concomitance, and of the presence of the characteristic in the subject, knowledge which is the last cause of inferential knowledge, which is the last cause of inferential knowledge. The number of members rem unstrived a five is in Gautania with the traditional names of proposition (pratiplia) which states the subject with the conclusion as an attribute, reason (heta) which services to the subject the incidele term which services as the means of

¹ Sr. 4 154

^{*} TC if 691, 692 For As yet as reasoning generally of AV to 1 11

connecting it with the conclusion, example (udaharruna) in which the concomitance is given in full with an example either positively or negatively, the application (upanay t) in which there is attributed to the subject the middle term characterized as being a member of the concomitance and the conclusion (nigamana) in which it is declared that the consequence is an attribute of the subject. The purpose of the five members is stated formally to be to teach the knowledge of the subject the syllogistic mark the knowledge of the concomitance, the knowledge of the subject that syllogistic mark as an utili util of the subject and that there is nothing opposed to the first result reached in the conclusion. In its truef form the syllogism is thus exemplified.

The mountain is fiery

Because of smoke

Where there is smoke there is me as me a kitchen or Where there is no fite there is no smoke as me a lake. And so (i e provided with smoke which is invariably accompanied by fire) is this (mountain)

Therefore is it so (i e provided with fire)

In the example now misnamed the concomitance may be expressed in two ways either as given above on the adjectival form. Whatever has smoke that less has fire, or Whatever has the absence of fire that has also the al sence of smoke. The latter mode of expression is the more frequent in harmony with the tendency of the language to nominal expression. The application and conclusion in Sanskrit are frame I in the enginate tithac expans and tusinat tatla at the historic ground of which we have already seen. The scheme which is normal must be modified slightly for the purely positive and the purely negative inferences since in these only

¹ Cf NBh p to

² TC i 740 ff NSars pp 12 185-8 TR. p 180

one form of concomitance can appear under the example and in the latter a negative is necessary in the second last member of the syllogism.

The characteristics of the syllogism are obviously not without relation to the nature of the Sanskrit, language The preference carried out to the full extent of a positive result is rendered easy by the fact that every proposition can be thrown into a positive form by the simple expedient of using the qualification of non existence (abhawa) and saying that the mountain possesses absence of fire in place of saying that the mountain is not fiery Similarly no hypothetical result is necessary as we have seen the concomitance can be expressed in the form of two correlative clauses but it can be easily and is more frequently expressed in adjectival form. The subject is capable of wide extension thanks to the power of the language, where a thing is not a convenient subject, a place or time may be converted into one But the subject must either be individual " or a class denoted by a class name and capable of being considered as a single object. If a number of things do not form a real class there cannot be any single judgement about them, there can only be a series of judgements arising from a series of independent inferences regarding each legh char

An inference, again as we have seen must correspond to reality, and there can be no formal correctness, as opposed to real representation of truth. This demand excludes partial or in the school terminology contingent (anyadhkay) indepments, which would not correspond to

¹ Jacobi NGWG 1901 p. 470, says in 11 e fourth and fifth members but this woul igues a negative conclusion of NSira pp. 7, 108, 110 TR. pp. 7, 2 The negative form is sometimes adopted however, e.g. TB, p. 39, cf NBh p. 43 Colsbrooke, i. 315 316 Padarth rate sensit in 54.

^{*} NS. JL 2 CG.

Below ch. vii 4 3.

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reality for in the Nynya view the knowledge that some S is P is not true knowledge which would require a knowledge of exactly what S were P

The similarity of the syllogism of the Nyaya to that of formal logic is as obvious as the dissimilarity, and the cause of the difference is plain. The Nyaya syllo giam represents the form developed in discussion. The proposition which heads it represents the starting point without something to represent the object of a desire (al'anksa) to obtain information no discussion can begin The reason is the answer to the question why the pro-position is asserted the example, or rather the statement of concomitance, replies to the question why the reason 18 sufficient to produce the conclusion the general state ment being made clear by an example It remains then only in the two last members of the syllogism to apply the general rule to the particular case and then to express the conclusion which thus appears at the end of the syllogism not as a mere idle repetition but as the assurance of a reasoned conclusion. What is remarkable however is the fact that the example remains almost to the last an essential part of the system indeed in prictice it is the example which is given rather than the formal statement of concomitance at remained for Laugaksi Bhaskara in his comment the Nyayasul U antamanjari pral ara 2 to say that the use of the example is conven tional and not essential

While in practice the Nyaya syllogism is frequently reduced to the first three members the third in the mere form of the example as in The mountain has fre because it has smoke like a kitchen', the Mimansa formally reduces the number to three namely the first set of three, another wea accepted the second third and fourth members as afoquate while the Vedanti was satisfied either with the flist or the last three! The late Buddhist view accepted as necessary only the third and the fourth (udaharana and upanaya) Dhuma kirti s² view differing from that of Dignaga,³ treats the proposition and the leason in which the example is included as sufficient for inference. The Vaicesuka agreed with the Nyāya though the tradition of the distinguishing names given by Pragistapada was presequed.

5 Analogy or Comparison

The Nyāya school 4 and the authorities of the Nyaya Vaicesika with the exception of Civaditya treat analogi or comparison (upamana) as a third means of proof, the establishment of something unknown through its sumi larity to something already known The stock example of the process is already given by Vatsyayana, a man who has never seen a buffalo is told by a forester, who as an expert is worthy of credence that it resembles a cow On entering a woody region he sees a strange animal whose shape reminds him of a cow, and there comes to his remembrance the name buffalo taught by the forester The essence of the process involves both the knowledge impulted by the forester, and the percep tion of similarity in the object presented, and there is a direct divergence of opinion between the ancient and modern schools on the part played by these two factors

¹ VP p 14 TC 11 689 n PSPM p 49 CD p 44

^{*} NB p 118, cf NBT., p 90

² His acceptance of these members is criticized, NV, p. 141

^{*} AS 1 1 6, ii 1 44 8 TC iii 1 101, TA, p 20 TB, p 45 TK, p 16 TS, 455 BP 79 60 TR, pp 85 94, of CV pp 222 30, 9DS, p 70

NKoça, p 147, the first view in ABI pp 21 22 the latter NV, pp 60 61, ASM, pp 20-3 follows ABh

in the production of the result. The older view holds that the immediate cause of the knowledge obtained by comparison is the evibal knowledge in the byth of one ster, while the perception of resumblance is but an accessory cause of the result. The modern school inverts the relationship, thus laying greater emphasis on the similarity which hes at the bottom of the process but without fundamentally altering the view of the process. Similarity, however is not to be deemed the only cause of knowledge of this kind, dissimilarity or a peculiar property may serve the same end thus a man may recognize a camel because, unlike a horse it possesses a humped buck and a long neck on a illinoceros by the single horn which adorns its nose

There is disagreement also between the ancient and modern schools as to the precise nature of the judgement in which the process of comparison results. The older view, held also by Keçava Migra Laugaku Bhaskara and Annam Bhatta gaves the judgement as an assertion that the animal perceived bears the name buffalo. The more recent opinion of Vigvanatha treats it as a recognition that the thing seen is an individual of the species luffalo, and this accords with the fact that the result of the experience is to enich the subject of the experience sit of the comparison of the vigual to the subject of the experience with the incognition by its name of a new animal species.

The weakness of the Nyaya concept was not genored by the rival school Vacaspati Myra' in expounding the Samkhya doctrine which does not admit comparison as a separate means of proof analyses the process and proves that there is nothing permitting of the setting up of comparison as a special means of attaining know ledge. The instruction of the forester falls in the sphere of verbal knowledge, as a means of proof, similarity is recognized by perception and inference accounts for the rest The Vaicesika school include comparison in in ference 2 the syllogism runs 'This object is to be styled buffile, since it is like a cow and whitever is like a cow bears the name buffalo' The reply of the Ny is a 2 15 an appeal to experience which shows that in ordinary life judgements of comparison are formed without going through the process indicated a reply which shows a complete mability to distinguish between a logical and a psychological analysis, and to the conservatism of the Nyaya rather than any other cause must in all likelihood be attributed the maintenance even in the latest state of the school of a distinction between inference and comparison as fundamentally different modes of proof. The whole subject receives elaborate discussion by Udayana who rejects the Vedanta and Mimansa defence which regards the instrument in comparison as the cognition that this animal is like a cow and the conclusion as the judgement 'The cow is like this buffalo He defends comparison on the ground that it implies more than verbal testimony which only teaches us that the term buffilo' is applicable where likeness to a cow is found comparison on the other hand gives us the knowledge that the term buffalo applies to a species which we comprehend from perceiving a specimen in quite a different manner from our previous knowledge based on verbal testimony Comparison therefore teaches us the direct signification of a word at does not teach anything about the existence or non existence of anything hence

In \Sara pp 30 2 222 37 at is reduced to verial testimony

^{*} VSU 17 2.5 3 Makanak p. 116.

Kus m 8-12 of TC m 40 ff. TR. pp 90 4 the Minisher (PSPM, p 68) makes likeness a separate category a view refuted both in SS, v 94-6 and by Kumarda

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a creator by the companion Whatever is like the omniscient individual soul is not omnipotent and this being which is like the individual soul is what is meant by the name God the reply is that the use of comparison as means of proof in this way is invalid In the Nyava Sutra 1 itself the case for comparison is defended against a difficulty made as to the possibility of argument from mere similarity by the statement that the reasoning is based on recognized and patent simi larity Against the argument that it like inference, leads to the establishment of what is not perceived by means of what is nerceived it is mired that it is the perception of the buffalo which leads to the result of the comparison, and that the verbal expression of a com parison diverges from that of an inference whence the difference of the things follows

if there is an attempt to prove the non existence of

1 1 44 8 NR1 pp 90 91 NV pp %8-60 Cf KKK 1 319 %

CHAPTER IV

LOGICAL ERRORS

1 The Origin and Development of the Doctrine of Fallacies

The treatment of fallacies in both the Nyana Satra and the Vaicesila Satra is I rief and simple standing in curious contrast to the elaboration of this topic by the later texts Fallacies rank as one of the categories of of Gautama, but in accordance with the lack of develop ment of any theory of the true nature of inference there is no attempt to explain the reasons underlying the classes of fallacies enumerated Naturally enough, the commentators find in the list the prototype of the scheme which they recognized in the contemporary syncretist school but it is difficult to believe that this view had any legitimacy. Of the list of five given the first and second alone are named with familiar terms the first is sayadhicaya discrepant, which is defined as a reason which leads to more conclusions than one (anaikantika) and this definition applies to the form of fallacy through out its history The second is the contrary (viriddla) which is marked by the fact that the reason leads to a result opposite to that which is established, and it also-though with change of sense-passes into the later terminology The third prakaranasama seems by its literal sense 'equal to the question , to mean a reason

which provokes the very question which it was intended to answer, the later view classes it as equivalent to the counterbalanced reason (satpratipalsa) but with doubtful propriety, for it may equally well be equated to the contradicted reason (badhita) or more probably differ from either. The third form styled equal to the con clusion (sadhyasama), is explained as one in which the reason is as much in need of proof as the conclusion later it is classed among the unreal reasons (asiddla) The last is that for which the time has gone by (kala tita) on one interpretation which Vatsyayana rejects it applies to a fault in the form of the syllogism when the reason is adduced in the wrong place in the order of propositions This interpretation however is open to the objection that mere formal order is not essential to the meaning of a Sanskrit sentence and that the mis placement of any member of the syllogism is described placement of any memoer of the synogam is described in the Nyaya as falling under a special form 'the un-timely' (apraphalala) of the category styled Occasions for Rebuke' (aignal a stl ana)² The accepted explana tion, however is hardly easy to believe It is based on the view that an effort is made to argue the abiding character, and therefore eternity of sound from the fact that it is manifested by union (e g between a drum and the rod) just as colour, whose existence is admitted in manifested by union with light The fallacy lies in the fact that the munifestation of sound is not due to the union but takes place at a subsequent moment (kalatita) after the umon has ceased. The later doctrine forces it into the category of contradicted reason but manifestly without plausilihts Indeed in no part of Gautama s

Cf NBh p o3 NV pp 1 o 1 6.

² MS v ° 11 2 NV p 1" hBl p 54 N\T g yes the later yie that t = both to

system is there more clear proof of the lick of an authentic tridition of his meaning unless perhaps in the confusion as to the significance of the three kinds of inference which he recognizes

The case with Gautamy is very different from that with Kanada 1 The doctrine of Kanada as now restored to the text of the Sutra is perfectly plain it states t definition of a fallacious reason or non reason (anapa deen in his terminology in which apadega replaces heta) as that which is unproved (a prasuldha) that is which is not shown to be in invariable concomitance with the consequence Of the fallacious reason two species are mentioned the unreal (asat) and the doubtful (same dig llat), which correspond accurately enough to the later asadda and satyabhicara. The examples given are for the unreal the argument. Since it has horns it is a horse for the insufficient reason. Since it has horns at is an ox A horse of course is not horned but there are other animals besides an ox which are so adorned As the traditional text stands this clear out line has been brought into confusion by an interpretation which may probably enough be little if at all anterior to Pricastapāda himself 3

2 Dignāga and Progustapad i

The evidence already adduced in the account of the development of inference gives ground to suppose that Diguage cun claim to have enuneisted the principle of mararable concomitance as the fundamental principle of the syllogism. The investigation of this question

^{166 1 1-17}

² anaikin ika evidently = samilyika

² areas dilho maraderah asan munigdha ca is the or sinal text, I raçastapada (p. 201) read it as one Sutra.

mevitably led to the exposition of the conditions which must mark the middle term if it were to serve the purpose for which it was destined, and the Nuāmenrateget lays down the three essential conditions in explicit terms The whole of the subject must be connected with the middle term, all things denoted by the middle term must be homogeneous with things denoted by the maior term, none of the things heterogeneous from the major term must be a thing denoted by the middle term Dharmakirti in the Nyamibindu 2 reproduces the same rules for the three characteristics of the middle term . it must exist in what is to be inferred (unime je sattram ent), it must exist in things only which are homo-reneous with the major term (supulsa), and it must not exist in things heterogeneous with the major term (rivided) The division of fallacies in both is based on the principle that if one or more of these rules is violated, there auses a fullacious reason Three classes of such fallacies are recognized by Dignaga the unreal (asiddha), the mdeterminate (unuil antika) and the contrary (unuddha) as they are styled by Dharmakirti who follows with modifications and improvements the scheme set out by his predecessor Four subdivisions of the unreal reason are recognized when the unreality is recognized by both purties to the discussion, when it is conceded by one party only, when its reality is called in question, and when it is doubtful whether the middle term can be predicated of the subject. Of the indeterminate there tre six forms when the middle term abides both in the major term and in the opposite, which is the too general middle term of later logic (sadharana), when the middle term abides neither in the major nor its opposite the too restricted (asadharana) form of later logic, when the

¹ Med Los pp J3ff N IP 58 59 2 NB, pl 114ff, SD51 pp. 44 6

middle term abides in some of the things homogeneous with and in all of the things heterogeneous from the major term, when the middle term abides in all the major term, when the iniquite term about in an the things homogeneous with and some of the things hetero-geneous from the major term, when the middle term abides in some things homogeneous with and some heterogeneous from the major term, and lastly the contary but not discrepant (rounddhavydbhcarin) middle term that is when a thesis and its contridetory ure both supported by equally valid measure. The stock chample of the last is the argument adduced by a Vaiges that o prove that sound is not eternal because it is a product while the Min ma responds that it is eternal a product while the atim mas responds that it is eternal because it is audible. Finally there are four sub-divisions of the contraly, according as the middle term contradicts the major term or the implied major term or the minor term or the implied minor term. Of these the fallney which is contruly to the unplied major term is akin to the contrary but not discrepant, since it depends on the fact that it is contrary to a principle of the school by which it is used and it is therefore termed

that which ents across one sprinciples (charuphilabet). The example given by Digniga is the argument that the tyes & are of service to some being because they irreduced by the service to some being because they irreduced to a service to the body, but the implied meaning is of service to the body, but the implied meaning is of service to the body, but the samkhya system holds that though things made of particles are of service to the body they are not of service to the soul which has no attributes. Hence the mall the term contradicts the implied term as understood by the Squikhya.

[&]quot; Kumar la ÇV pi 190" clarly refers to it is view and the

Dhann kirti 1 presents us with the same classification but with a diminution in the subdivisions. The four of the unreal reasons remain but of the indeterminate only the first two me kept the too general and the too res tricted and the contiany likewise is reduced to two varieties depending on the fact of the existence of the middle term in what is beterogeneous from the major of its non existence in what is homogeneous with the major It is of interest that he recognizes and disallows the two varieties of contrary but not discrepant and that which cuts across one s principles The former he holds not to concern inference at all as it mises from the fact that the two different sides in such a case jest on the authority of scripture and this is for him is in theory it was for Dignaga no true source of knowledge 2 The latter he dismisses because it is included in the general conception of contiary which indeed in the definition of Gautama is that which is continue to the principles admitted by the reasoner 3

In the case of Pacastapada the question is complicated by the caustence of the tensus memoriales which he cites as embodying the views of (kanada) Kayyapa and in which the division of fallacies is based on the conditions for the correctness of the reason for inducing proof. They viin. That mark is the means of inference which is connected with that which is to be inferred is known to exist in that which is accompanied with that

¹ NB pp 111 to so the Min al CV p 217 For the unreal see CV pp 192 193 3 NB p 110 It is set a ed with the other two see VV p 193 5 NB p 113 NS 1 2 6 4 p 290

anu e je a sa bad U an pra lddha ca tada e adabi e ca v s y e a tal I nga 1 an m pakam v par a 1 a o yol syn t el er a de ta jena tā v ruddh s ddl asa ad g lham al nga Luyapo brac (

which is to be inferred and does not exist at all where that does not exist. That which departs therefrom in one of two points is declared by Kacyapa to be no reason as contary unreal or doubtful. The similarity of the statement of the three conditions $(tran \bar{v}pya)$ of the inddle term to that in the Buddhist formulation is obvious but it is important to note that the parallelism is not complete as regards the first essential condition In the case of the Buddhist formula this condition is stated as the connexion of the middle term with the sulject (anumeya) the sense of the latter term being made clear by its definition in the Amegabindu as the thing possessing in attribute (dharmen) whose peculiarity is to be known (gina ila viçesi). It is natural to read the same meaning into the tersus memoriales and this has been repeatedly done 2 but only at the cost of com plete disregard of the language While that which is to be inferred (anamena) can like sidlya in its carlier sense denote the subject of the inference it courlly easily and naturally like sādhya is employed of the conclusion and that this is here the sense is proved by the expression which is to be accompanied by that for the that' (lad anite) can only refer to anime a which precedes it and it is of course common ground that the characteristic of the similar instance (supulsa in the Ayayabinda here t idant de) is to present the major and middle terms, not the middle term and the subject. The apparent objection that thus the reference to the subject is omitted must be recognized but the remedy is not to read a into the verses

In r p 303 Faildegon lat Sixon, p 503. But of SDST p 41 at the Th. p 282 but of SDI vi. 2. Garbe trans of SS. p, 53 Gafigandtha Jla, NS. 1 346.

¹ NB p. 104 this view as in D only a is controverted in M pp. 25 4 where (p. 19 PBh. p. 200 seems to be referred to D only a source is given in Multitham wall p. 13. Cf. p. 109, n. 2 2 Jacobi NANG 1,501 p. 480, Steherbasthol Meson v. 146 S. sal

the qualibration that the first condition connevious with the conclusion is to exist in the subject, which of course, being the question. The Vargesikas deliberately adopted the view that the knowledge of the middle term was the presented cause of inference, and were criticized by their opponents precisely because thus they failed to emphasize the element of existence, of the middle term in the subject. The explication of their attitude is perfectly simple the three conditions as set out represent a piecess statement of the third member of the syllogism, the example (unlabration) when completed as it was in Pagestapial's time by the enunciation of the general proposition. Of the first part of the example we have a reflection in the hist part of the example we have a reflection in the hist part of the example we have a reflection in the middle term and the major term between them such as the middle term and the major term between sinck and fix

Where there is smoke there is fire, the second condition corresponds to the affirmative example of the con comitance of smoke and fire as in a kitchen the third with the negative example of the absence of smoke when there is no fire, as in a lake | The reference to the subject as of course amplicate the conception of a middle term is essentially relative to a subject on the one hand and a major term on the other In the Buddhist formulation in its turn there would be madequate reference to the in viriable concomitance as a principle if it were not that the middle term is essentially relative to the major and is related to it in the view of Dharmakirti by way of i lentity, cause and effect or non existence. The diver gence of emphasis however, is very far from diminishing the probability of borrowing on the part of the \aicc siks at is an entire accord with the natural wish of a school, when it has to appropriate fruitful i leas from another to disguise and adapt them in form if not in substance

The impression of borrowing is confirmed by the fact

that Pragastapada or some predecessor, if we admit that the versus memoriales were really composed before him thought it necessary to remodel the text of the Varcesthe Salre in order to bring the new doctrine into har mony with the accepted text. The correction was in genious the two aphorisms of the original text which as we have seen defined fallacy and at out two classes, were combined into a single clause and read as giving the varied classes of fallicies. But the complication did not end there, for it was not sufficient to Pracastapadi to establish three classes of fallacies he had to assume that the enumeration gave room for the four classes which he himself accepted. The terms of the text as changed gave the old classes of unreal (usut) doubtful (sandigdha) and also appasiddha, a new term while the terns memoriales give usuldha tituldha and sam diadha and Pracastapada added the anadlyamista or void reason. To effect a harmony between these views and the Sutra Pracastapada 1 declared the 1 lentity of aprasiddha with tiruddha and his new iddition regard less of the utter violence he thus did to the text A later hand a endeavoured at least to avoid the mecharenes. thus created in the Sutra by the interpolation of a word at the end of the second of the two aphorisms which Pracastanada read as one the text thus gave once more two clauses but in heu of a definition of fallacy, fol lowed by an enumeration of two classes we have first the statement that the aprasaddha is a full act, and then that the unreal and the doubtful are fallacies, the absurdity of which is self evident

Pricastapada 3 himself gives in prose practically the

¹ pp. 938, 939

1 Jacobi NGWG 1901 p. 481 p. 2.
5 p. 901

4 gud anuncyendrikena depar pro kulatigrse tu sakatari a n

one negadharmant e canya'ra sarrasman ekad fe ti prasidham anume yat pari e ce serrasm ne prame nalo 'nad eta lad aprasid likarikas, numipaka n l'Tomm. For my independation of VI, p. 12.

same account of the conditions affecting the reason or mid lie term the mark must be associated in respect of time or place with the thing to be inferred be found in all or one case where the attribute to be inferred is present and be proved to be non existent in everything opposite from what is to be inferred. The slight divergence of wording brings out clearly the essential realism of the system the reason is a reflex of reality. At the same time the wording confirms the view that the first con dition refers to the relation of middle term and major not of mildle term and subject the thing to be inferred 18 the fire on the mountain not the subject which is not a thing to be inferred but a thing whose attribute is to le inferred from the mark. In the second condition a new element appears which forms also the subject of observation by Uddyotakara in his examination of the formulation of the subject of the three conditions of the reason by Digniga it is expressly recognized that the extension of the middle is not equivalent to that of the major fire may exist without smoke This point the earlier formulation ignored for the simple reason that it was nuclevant to the business in hand the third member of the syllogism must give an afhirhative example, and it is irrelevant to note that the major may exist without the middle term

On the basis of the threefold conditions of the reason Pragastranda brises his division of fallacies departure in one or two points brings about the invalidation of the reason to attuin the conclusion just as in the Buddhist view. Moreover the divisions of the unired reason are similar to those which were already given by Dignagafrom whom he doubtless borrowed them. But in the other categories there is a significant variance which can

¹ Stcherbatsko Musson v 168 148 58 co tr , Faddegon p 3°2

which the middle term is present neither in the major term nor in its opposite. The stock example is the reasoning. Sound is eternal, because it is audible Dharmakirti 1 however, classifies in the same count the argument which the Nyaya and Vaicesika accept. Living bodies have a soul, because they have animal functions . which the later theory makes an inference with purely megative concomitance (levala vyativekin)² It is not certui how fir Pricastapada would have accepted the classification of these two kinds under the same head for, though he does not actually recognize the classes of purely positive and purely negative inference he appears 3 to admit the truth of the argument. Sound is a quality, because it is audible, or Sound differs from other things because it is audil le. The distinction between the two instances is plum in the first the major term eternal 19 wider in extension than the subject and the middle term which are of equal extension sound alone being audible, in the second, the three terms are all of like extension and in the later view at least the conclusion is legitimate. Whether in any case the too restricted reason is deemed doubtful or you seems little more than variation of terminology designed to mark the independence of the new writer. The distinction is the more noteworthy in that Pracastapada himself records an ol jection to this view in the fact that Kanada ' in treating of sound appears to have reckoned the too restricted reason as a source of doubt although Pracastapada has not much difficulty in explaining away this seeming obstacle to his theory. It is in keeping with his determination to avoid too close

Laugaka Bhaskars more menerally as that which is the object of a knowledge which renders impossible the interential judgment of the process which leads up to it the latter phiase being wide enough to cover what is held on any of the theories to be the proximate cause of inference whether knowledge of the middle term knowledge for the concomitance or the reflection (proximater). Annam Bhatta 1 insists on requiring that the knowledge should be correct since otherwise in the familiar reasoning. The mountain has fire I ceuse is has smoke a fault might be suggested through the erroneous perception of the absence of fire on the mountain.

the absence of fire on the mountum.

The classes of fallacies are also increased to five an arthroad symmetry designed doubtless to imitate the Buddhist system which recognizes three conditions and three sets of fallacies. Presumbly the increase in the number took pives first in the classification of fallacies and thence, was extended to the number of conditions. The five classes are in the order of Gangega² the discrepant (single likely and which is also styled indeterminate (anathantia) the contrary (wirinddia) the counterbalanced (signification) for the uncell (avaidia) and the contracted (is thata) but they may be examined in the order of the Buddhist list with the a ldition of the two new members of the series.

I The indeterminate or discrepant which is styled in the Vaiceuka terminology the doubtful (aundigdka) has in the fact that one or both of the second and third conditions is violated, whence the conclusion cases to

the first two are in N\ p 1 3 PSPM p 46

¹ TS 450 + TC 1 760 ff NS 4 a p 7 keeps Gautamr a names b t adds a s.th. TR tc follows Gautama k.K.N. 3654 refutes tiern all SP 4160 TC 1 84-811 Tp, 10 TB p 44 167 108 HK, pp 13 14 TS 452 BP 24 keeps on te tie third form a lot NT bp 217 20 NS 431 pr 7 10 123-6 makes serbt varieties

possess any certainty and remains therefore an object of doubt It falls into three species

- (1) The too general reason (adharana) is found not only in the similar instances but also in the opposite instances the possession of horns does not make an animal an ox nor has the mountain fire because it can he known
- (2) The too restricted reason (asadharana) on the other hand offends against the second condition for it occurs nowhere outside the subject itself. Its absence from the opposite instances or counter examples tends to establish the validity of the conclusion but its absence from the similar instances or examples tends to invalidate the result which remains therefore a matter of doubt Sound is eternal because it is andible is the standing example, as we have seen the fallacy is distinguished in the modern school from the purely negative inference by reason that in the fallacy the major term has greater extension than the other terms while in the inference which is valid all three terms have the like extension
- (3) The reason which does not subsume (a unasam harin is that which is alleged of a subject which is so extensive as to permit neither of examples or counter examples as in 'All is eternal because it can be known The nature of 'all forbids the possibility of any universal concomitance and thus prevents either the second or the third of the conditions being complied with Or equally well the opposite argument can be used 'All'is transitors because it can be known. The modern school object that the individual things of this world might serve as examples and therefore define the fallacy as one in which there exists only a positive connexion between reason and consequence a definition which is open to the

retort that it covers the case of the purely positive inference which the modern school accepts as valid as does the older school, as in 'All can be named, because it can be known'. There exists, however, a clear difference between the last proposition and those quoted to illustrate the fallacy . in the latter there is a real ground of connexion between naming and knowledge, in the former it is not so, and the test of reasoning is always in the school correspondence with reality.

II. The contrary reason (viruddha) 1 is one which serves to prove exactly the opposite of the thesis it is adduced to establish. It thus does not exist in examples, but does exist in counter examples, and so violates the second and third conditions alike. Sound is not eternal. because it is a product, nor is an animal a horse because it has horne.

III. The unreal reason (asiddha) * falls into three species in accordance with the three factors involved in the reflection (paramarca) which brings about inferential knowledge, the subject, the relation of the middle term

¹ SP, § 159, TC, 1 842 64, TA, p 19, TB, pp 44, 107, 108; TK, p 14, TS, § 54, BP 74, NSara, pp 7, 9, 119 23, gives eight varieties, TR, p 224, gives the same definition as Neura and TB In NB , NV 1, 2 6, it still is really a badlita , the new sense is in NVT

SP, § 158; TC n 897-937, TA, pp 19, 20, TB, pp 42 4, 102-6, TK., pp, 14, 15, TS, § 50, BP 75-7, NSara, pp, 7-9, 118-9, gives fourteen divisions (twelve in commentary) defining it as anicotopalsaertts, TR., pp 223 8, follows Udayana's Laksanamala (according to the commentary) in the threefold division, but adds a fourth class of affidadaidata (in three varieties) and mentions five of Bhasarvaina's as subvarieties. Both record the more general divisions of ubkayasidahi and anyatarāndāh. NV., p. 177, has a triple division with divergent names for (2) and (3) ; but NVTP recognizes the new names, while NVT has four classes (marupa, ekadepa, acraya, anyaha); PBh, p. 238, has animeya, tadbhava, and two varieties of what is equivalent roughly to NB., p 112.11 2-7, where three varieties occur. NB has also dharmyand sand a that daha

There are two forms of this class in the first the concomitance simple does not exist, in the second there is concomitance but only a conditional (auxadhika) one which is of no value for inference. In the first case we have such inferences as 'The mountain has fire because it has golden smoke', for the addition of golden destroys the concomitance since golden smoke does not, in the Indian view, exist? Even if we substitute black for gol len the older school denies the validity of the inference, thou h the modern school admits it, apparently on the ground that otherwise it might be thought that the quality black formed a necessary part of the concount tance which is between the smoke and fire as such More interesting is a third example the reasoning 'Sound is momentary, because it exists', which represents the Buddhist view is rejected because it involves the proposition that all which exists is momentary, and the Nyaya lairesika insists that a sound lasts for three moments that of its production and that of its destruction with that intervening between them

The con hitonal concomitance is illustrated by such a case as the argument, 'The mountain has smoke, because it has fire.' The proposition is con hitoned by the fact that there is no universal concomitance between fire and smoke, but only let ween fire produced from wet finel and smoke. Laugakis Bluckara and Annam Bhatta treat this as a fallecy, and indeed annam Bhatta definition of the third form of the unival reason seem strictly speaking to cover the conditional concomitance only. On the other hand there exists a new which declines to accept such a case

¹ On spatch see TC. ii. 294 400; TB. pp. 45 44 100; Tb. pp. 17
16; Twb., \$450, BF 185-40 NSt. ii 2.14 TR. pp. 6-10 Max
Maller's view '5 x "pr. cm., pp. 5"0 5"2) is clearly wrong Cf. NSM
pp. 110 16.

as fallacous since it does not fulfil the requirement of a fault in reasoning, namely that it should prevent the taking place of the reflection (parimarya). In truth if the condition is borne in mind it is possible to reason accurately. Thus we can reason correctly, 'If the lightning were to fall on a heap of hay, it would give out sinoke', since in such a case the condition for the truth of the concomitance would actually be verified. This is an interesting example of the effort to extend the process of inference beyond the bounds imposed upon it by the demund that nothing saie an absolutely universal concomitance should be taken as a basis of resoning

IV The counter balanced reason (entpraterales) 1 is one for which there exists another reason which proves the contrary of the consequence. The later texts apply to it also the term prakaranasuma taken from Gautama counting the two ideas by interpreting the prakarana sama as a reason which, though intended to give a certain proof, leaves us with the desire for an argument to establish the conclusion and hence is called 'like an argument' (prakaranasama) This form of reason differs from the contrary, because in the latter the reason in itself proves the opposite of what was intended, while in this case the reason is simply rendered inconclusive by the existence of an argument opposed to it of equal weight In the contradictory reason (badhita) again, the consequence is in flat contridiction with the truth and this contridiction may be proved not merely by argument, but by direct perception or other recognized

¹ SP₁, § 161, TC in ⁴C₂ to, T₁, P₁ P₂ Th, P₂ P₃ (4, § 109, 109 Th, P₁ P₃ T, § § 5 BP 7. (1 never of Nobine pp. ¹C₂), reflect in TR, pp. 221-3, when the credibleps shooted appears as a variant of this form, while Behasteral is seem to reduce it to an expansional coherense the commentary, pp. 183-5. The identification with principles of the p

means of proof Again, to make this case of fallacy there must be equal weight in the two reasons which can be opposed in the triple division suggested by Keçava Migra the first two cases where the first or the second is of parallal weight cannot be properly neckoned here. If there is scriptural authority for either argument, it must prevail and the reason would become not counter balanced but contradicted.

V A reason is said to be contradicted (budhita)¹ in the definition of Keyava Migra when by means of another proof perception or otherwise, it can be established that there is present in the subject the negation of the consequence which the argument is intended to establish It can be illustrated therefore by such a proposition as

The fire is cold because it is a substance, like water while for the counter balanced reason we must have resort to such arguments as 'The mountain is first because it has smoke opposed to The mountain is not first because it is bare rock. With the contradicted reason the later school identifies the kulatita fall by of Grutain on the ground that it is importune and intempestive (kulatita) to adduce a reason of this soit to prove a conclusion which other evidence has already established the contrary conclusion.

From this general classification and description none of the syncietist writers departs in substance though thega's Migrae ounts entirely the non-subsuming valuely of the inditerminate reason. Qivaditya 2 however in creases the number of classes to six by accepting as a sepurate class the voil reason (anadilyat iside) of Pragastapada which he defines much as in that writer

¹ SP § 16² TC 11 938 S² TA p ²⁰ TB pp 44 % 109 110 TK p 15 TS § 67 BP 78 NS4ra pp 7 f1 TR pp ²⁰ S1 ² SP § 161 The NS4ra pp ² 1° 1 as the old five of Gautama and the void reason as a suft the last TR pp 230 236 rejects

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showing that at his early date the fusion of the Vaiçesika views was not yet completely carried through. The earlier Vaicesiha too had not recognized the classes of counterbalanced and contradictory reasons as such Çankara Mıçıa I telis us that they were interpreted into the text of the Sutra by a Vrttikara or writer of a commentary, but the identity of this author is wholly unknown There is of course a rough distinction between the new classes and the old but it can haidly be contended 2 that the Varcesika school acted on an attempt to distinguish between formal and material fullacies in omitting them for, as we have seen there were approximations to these classes in the classification of Pracastanada Thus the contradicted reason figures in Pracastapada as part of the contrary (corneldha) in the shape of the reason contradicted by the text of the school (agamabadhita) and this can be traced further buck to the antinomic reason (viruddhāiyabhuarin) of the Buddhist logic The counter balanced reason (sat pratipalsa) again figures with Pracastapada as part of the void reason (anadhyarasita) and again can be traced to the antinomic head of the Buddhists Nor in truth is it really possible to attempt a serious distinction of formal and material in fallacies, since the Indian logic is never formal but always realistic

It is characteristic that there should have been made a cornous effort to induce the categories set up by Gutama to enter into the new division nor is it at all unlikely that the fivefold classification was stereotyped piecisely in order to suit the fivefold classification of the Nyaya Sutra. The efforts to equate pradaranasama and satpratipaksa, kaladata and badhida have been men tioned, the compilers ignored the fact that Gautama s

contrary (iv uddha) is really equivalent to contradiction by scripture (agamabadhida) or Dignäga's retarighalakit, and equated it with the later viruddha. The sādhya sima was equated with the unical reason, but the divisions of that head may be traced in part through Prayastapada to the Buddhist logic though the details are dulinos?

4 Other Logical Errors

On the theory of the Buddhist logic a trum of reasoning is fallacious not only if the middle term is defective but also if the subject inatter or thesis cannot be sustained that is if it is refuted in advance by the proof of the opposite or if the examples which serve to show the correctness of the middle term are not valid being badly chosen. On this basis are set up fallacies of the thesis (pulsabhase) and fallacies of the example (distantabhase) details of which we have both from Dignaga and from Dharmskrit.* It is significant that Praesata pada a accepts the whole theory, and follows closely the Buddhist model even to the extent of closely copying but with characteristic variation of phrasology the description given of the defective thesis. The doctrine

¹ NV p 1"7

² Steherbatsko s v ews (Masom, v 16J 1 0) are open to doubt Ti o deciaive approach to the modern vew is in NV, pp 176 177 a Med Log pp 90 ft, 96 ff , Sug ura H ndu Log pp 95 ff 68 ff

^{*} NB pp 111 116ff * pp 284 ff 247 ff

^{*}armoit (p. 231) replaces on sixtesh hBs., p. 110. Sitcherbatalon Mussor. v 158. Digapaga definition (cf. XV., pp. 119-190) was saft interceptable poisate residentian (cf. XV., pp. 119-190) was saft interceptable poisate residential near saft was been showned by NY. Shandhul (node Xv. abundhul) weems to have defined chamed by NY. Shandhul (node Xv. abundhul) weems to have defined it as pulse yas making time use's (XVT., pp. 184-186). Ganghaiti a Jha e view (S. 1441n, 454 n) that he is the sauthor of the Fedinalous (XY. pp. 120-150) is improbable in v ew of the positive ev des co of the Thisebian trans. JRAS 1914 pp. 601-602.

however, is foreign to the Nyaya1 or the Vaicesika or to the combined school, and only the Jams 2 agree with the Buddhists and Pracastanada in recognizing it. The reason is clear as Uddvotakara and Vacaspati Micra 4 plainly say, if the theses are to be deemed as in their selves true or false, there would be no purpose served in recourse to the middle term and an examination of the fallacies adduced in the Buddhist school shows that the division involves useless repetition. Vatsyavana and the schools after him accept clearly the doctrine that the thesis is neither true nor false in advance, it is a subject of doubt which is resolved by the use of the middle term, or, as Annam Bhatta 6 has it, the subject (paksa) is that which possess the conclusion in a doubtful form (sumdradhasadhyavan) So little, indeed, did Pracastanada impress the doctrine he had borrowed on his school that Vacaspatimicia? ascribes the fallacies of thesis and example to the Buddhists without hinting that he knew that Pracastapada himself had adopted the principle The possibility of borrowing by Buddhism must there fore be entirely negatived

On the other hand the syncretist school 10 treats errors in the definition (id/ennd) as being closely connected with errors in the reason or indidle term. A definition may be too general (ittvyapt) and include the characteristics which are found in other things than the subject of the definition as in The cow is a horned animal. This form can be compared with the unreal animal. This form can be compared with the unreal compares in reseason in respect of concentrates (immunitaseidhal) or

Save Bhāsarva; A NSra pp 13 14 138 44 cf PSPM, p 50
 Siddhasena, NA 21 24 Manhlya PMS vi 12, 40
 NV pp 116 20
 NV p 3°

NBb 1 1 1 TS 5 49 NT p 239

5 Jacobi NGWG 1991 p 483

Steherbitskoi Museon v 150 S

[&]quot; TB, 1 p. 110, 111, TA, p 21, TSD, \$ 3

the too general form of the indeterminate reason. Or a definition may be too narrow (cryst) ti) as when a cow is defined as tawny, and other coloured cows are excluded. Or the definition may be impossible (asemblanta) as when the cow is defined as whole hooved, both this and the preceding being varieties of the unreal in respect of the substratum. A correct definition is negatively defined as one which is five from any of these three faults and more positively by \assample atayayana\assample as an atting both of the five first and itself. This characteristic results in the definition of the schools being largely reduced to the statement of the specific difference possessed by any thing and in many cases definition takes place by negation of certain attributes within a wider conception.

In addition to fallacies Guitama devotes three other categories to logical errors but the later texts treat them with as seruly consideration as they deserve. The first is the fraud or cheating (cliul) which consists merely in the gruin, of false interpretitions to the words of an interact in discussion. The forms of this device are three a word may be understood in the sense which appertains to another word of the same form as for instance man may be meant as new and interpreted as nine. Or the word may be given to owile, a sense (annayael ita) or a metaphonical expression may be interrireted therally (unsecularly in the proposal of the sense (annayael itae) or a metaphonical expression may be interrireted therally (unsecularly in the proposal of the sense (annayael itae) in the metaphonical expression may be interrireted therally (unsecularly in the proposal of the sense (annayael itae) in the proposal of the sense (annayael itae) in the proposal of the prop

iterpreted literally (upacanach di) 3

The second class consists of futile objections (jate) 4 of

¹ NB1 1 1 2 TR. pp "o 6 allows that a definition is really a p ruly negative inference

³ NS i ⁹ 10 1 with commentary NSara pp. 16 17 161 6 TB p. 111 TSD 581 GSAI xix 342 ff NSara pp. 16, 17, 161 6 TR pp. 239-46

^{&#}x27;AS v 1 \S4ra pp 17 °5 167 91 TB pp 111 112 TSD 181 SDST, pp 81 7 TR, pp °47-317

plea of business or admit a defect on his own side while criticizing one on the other, or fail to censure an error or censure what is corruct or depart from a tenet which forms the basis of reasoning (apasieddhanta) while the fallacies proper are naturally included as a specially appropriate occasion for rebuke

These miscellaneous classes have it is clear, for the most part but little direct connexion with logical errors, and fall rather within the sphere of dialectic Strictly logical are only such cases as those of inconsistency with the proposition in its various aspects or the shifting of the reason enunciated in the second member of the syllogism ly the use of a different reason in the third member In cases such as the regressus ad infinitum (unavestha) the reasoning in a circle (cakraka) the agnoratio elenchi (atmacraya) and others the errors which occur can be regarded as sense of syllogisms partly invalid Nor is it difficult if it were worth while, to show that the various sorts of logical errors can be reduced to the violation of one or other of the five conditions laid down for the correctness of the middle term

From the Nyaya school it is at least probable that the other schools borrowed their entitiesm of invalidation reasoning. It is true that the claim has been made by completed authority? that the conception of the regiment and significant as a means of argument is to be referred to the Samkhya school. But already in Guutama? the principle is adduced in the discussion of the indivisibility of atoms to which exception is taken on the ground that if each atom is capable of division the process will continuo ad infinitum which involves a regiessus and

¹ Cf Kkk. i 218 ff 2 Garbe Simkhyd pp. 157-60 (cf ed " pi 216 ff.) convæ Sual Ing p 117

CHAPTER V

THE NATURE AND AUTHORITY OF SPEECH

1 The Nature of Speech

THE recognition by the Nyaya and of the syncretist school save Civaditya of verbal knowledge (cabda) as a means of proof imposed upon them a careful survey of the nature and origin of language in which however their freedom of thought was strictly limited by the presuppositions which they inherited Each word has they hold 'n significance (palls), which is the convention (samana) made by God that such and such a meaning should be understood from such and such a word language is therefore conventional but the modern school varies the rigour of the ancient by admitting in the case of proper names the exception that the convention is imposed by human instrumentality while some supporters at least of the older view argued that though the immediate instrument was man act in giving a proper name the father was obeying the command of scripture to assign a name to his son, and therefore the action was ultimately divine a subtlety which even Vicyanatha rejects Of more value is the further defini tion of significance given by Annam Bhatta which makes it that relation between word and object which serves to call the object to memory when the word is spoken. The nature of significance as the power in

Th p 16. To \$59 SM on BP 81, \Sara pp 29 009-19

words to convey the sense imposed upon them by convention human or drine is not further elucidated in the Njayr which rejects, however the Mimans doctrine of the existence of a special category of power (calls) taking just exception to the multiplication of entities which would result if every capacity of a substance were thus given the runk of a category.

Freed from the burden of a binding tradition the Nyava was able to deal more effectively with the problem of the precise denotation of words To the Mimansa a word denotes the class (jati) and the notion of the individual (vyakti) arose from necessary implication only an opinion shared by the schools of grammar and rhetoric 2 The modern Nyaja for its part adopted the other extreme view the word denoted the individual concrete object its attributes coming in by implication alone The Vedanta sought to combine the opposing views by a distinction between the express and latent signification of the word which was deemed primarily to refer to the class concept but only to do so in virtue of its acknowledged connexion with the concrete objects included in the class. The Buddhist view was very different faithful to the opinion that the true nature of anything cannot be known but merely its differentia they held that the signification of a word was merely expressive of distinction from other things (upoh i) To the ancient Nyaya which Annam Bhatta and Vieva natha follow the word denotes at once the individual object the class of which it is a member and the distinctive property of the class (akrti)

TC. iv 1 460 ff , Cl. pp 34 ff 95 v 77 TR pp 163 164 qualing the Promypalal yang PSPM p. 90 ib l., pp. 54 8 refutes the convention theory

[|] The convention theory |
| TO iv 1 656 ff Müller S x Systems pp 630 ff Planin targans, Sirk, ch x PSFM pp 163 f6 (Sanksra BS i 3. 2.)
| VS ii 2 60-S TO i 1 689 ff ND ,pp 10 ff NV ,pp 314 ff

While the meaning of language is conventional the modes of acquiring it are arous. The Vedanta lays stress on the use of gesture objects are pointed out to the child and the names given. Other sources given by the Nyaya include the usage of life in which the child it hearing the same word used in different contexts gradually comes to learn its sense grammar which teaches the meaning of roots, terminations, and cases, dictionaries, instruction by experts, comparison, explanation by synonyms, context and contiguity the former applicable in the case of a word of generic meaning whose precise sense is thus indicated, and the latter serving to make clear the meaning of an unknown word by its proximit to others already familiar.

The sense of the words thus acquired is the primary or direct sense as opposed to the secondary of implied signification (laksana) 1 The primary sense however may bear various relations to the etymology of the term It may remain true to its root meaning (yaugila) as in 'cooker' from 'cook , it may have a customary sense (rudhi), as in ghata pot , which even if it is to be traced as held by one school of Indian grammar to a root still bears no obvious connexion with it, or it may without sacrificing its etymological sense be re stricted by custom to one only of the objects to which it might apply (yoga rudha) as in the case of hastin might apply jought received as in the case of next-relephant's where usage has confined the term 'possessing a hand to one only of the animals which might thus have been styled. More artificial is a fourth class (ynuguka rudha) mentioned by Jagadiça* and Viyra natha which includes words whose sense might be explained equally well either as etymological or customary

¹ TC iv 2 600 ff of Padiriharatnamal p 16,

The implied sense falls in the view of the ancient Nyāṇa into four subdivisons in the first the original sense is merged in the implied meaning as in 'the tribunal applauds', in the second the original sense remains, but comething further is suggested, as in 'Guard the ghee from the crows', where the command is understood to apply also to other birds, in the third a part of the primary sense is left out, and a part retained, as in the Vedanta doctrine 'That thou art where that denotes the unqualified absolute, and thou are the unfulfied soul, which divested of its qualities, is the absolute, fourthly be a process of implication on implication, the term diverba, thaving two re, originally applied to the word bharmara, bee is used of the bee itself. This last class is rejected by the modern school, which attributes it to the Vedanta. The modern school differ also from their predecessors in their view of the cause which gives rise to implication, the latter assert that it arises from the impplicability of the primary sense in the context but the modern school with more justice claim that it depends on the purpose of the speaker for in some cases there is no apparent incompatibility between the literal sense and the context to give rise to implication

Govardhana * gives a different division of the implied sense into primary (cuddha) and secondary (grund), the former of which includes the first two of the divisions ordinarily accepted. The secondary form of implication covers such a case as Guingáyūm ghosal 'the conherds' station on the Ganges', where the quitities of coolness and holiness which mark the current of the sacred river are attirluted to its bank. The doctrum is important,

¹ It is given by Vicesnatha only of VKoca p. 639 Jaya levs on To be 2 Con.

On To gra

for it is part of the reply of the Nyaya to the doctrine of suggestion (vyayana) on which from the eighth century omards an important school of poetics was founded. Suggestion based on words (yabb) was classed by the Nyaya as secondary implication suggestion based on thought was included under inference. Thus when the marden says

Go if thou wilt beloved, safe be thy journeying, There may rebirth be mine where thy journey endeth

the intimation that parting will cause her death is attributed by the theory of poeties to suggestion but by the Nyaya is regarded as merely inference. The theory which reduces suggestion to inference has its classical exponent in Minna Bhittla and formed the subject of an elaborate relatation by Manmarta but his arguments failed to persuade the Nyaya school of the untruth of their theory.

Words, however by themselves alone convey no meaning they derive their signification from their serving as members of sentences (tuly) a term which in the Nyaya view applies not merely to propositions containing verbs but to any collection of words, such as a noun and adjective which has a definite sense. In this view the Nyaya conflicts as often with the Pribba kar Minn disa? which finds that words have significance only when constructed with a verb which lends significance to the subject of jet or other quiffication of the action which it expresses. In the Nyaya view no such primacy belongs to the verb or any other part of speech the meaning is conveyed by the collective sense of all

¹ Jacobi ZDMG 141 896 ff NGWG 1908 pp 1 ff 1 jaki revks (Trivandrum S S 1909) pl 2 ff

PSPM p. 63 Ku nar la allove of s gn ficance 11 words At p Slb, 19 directed acc to NVT against the Pralla Lara vev of hSM, pp 161 fr

the words taken together 1 But it is not every collocation of words that can give a meaning there are three requisites which must be fulfilled to secure this result The first 18, as viewed from the standpoint of the listener expectancy (akānksa)" the word ghatam, accusative of ' inr'. by itself is unintelligible it requires its comple ment in anawa bring where the root a ni is expressed in the second person imperative, from the point of view of the word it and each element of it demands supple menting by another word or words Secondly there must be compatibility (yogu eta) between the meanings of the words water burns is syntactically possible but contrary to reality and therefore meaningless In the third place the words must stand in proximits (servadhe esette) A word itself consists of a number of sounds each of which exists for three moments only that of its production of its perception and of its passing away so that the perception of a word lears a similarity to the process of recognition the sense is apprehended at the last moment when the final sound is heard and the earlier sounds remain only in memory . In a series of words if there intervenes too long an interval between any of them they cannot be apprehended as a single whole and therefore reasonal le proximity is necessary whether the words be spoken or arranged in writing It is not enough however that these conditions should be fulfilled for the meaning of a sentence to be appre-

^{&#}x27;TC iv 1 400 # 20 TB pp 47 9 TK pi ic i'TC iv 1 18 °44 TA p 20 TB pp 47 9 TK pi ic i'TC 55 60 61 BP 84

hended their existence must be recognized by the hearer or reader for if he does not do so he will mis understand the sense while on the other hand even if they are absent he may by concerving them to exist read a possible sense into the words?

A further condition is however laid down by Gangeça " Viewanitha and Jagadica and implied in the view of Annam Bhatta They require knowledge of the inten-tion of the speaker (val tr talparya mana) by which means alone for example can one distinguish between the two senses of the words saindhavam anava 'bring my horse' and bring salt But serious objections are urged against this view on the ground that words which convey a definite sense may yet not be uttered with the purpose of conveying that sense Thus a fool may utter words which he does not understand or a parrot repeat a sentence without knowing its meaning and it is not a sufficient reply to argue that such sentences are apparent only, not real A Vedic text must have a definite meaning yet it may be recited by a man who does not understand a word of it it may be wrongly expounded by a teacher or it may be read in a book In the last case there is no speaker whose intention can be understood in the two former the speaker does not intend to express what is really the meaning. If the orthodox view is adopted which attributes to God the authorship of the text so that the intention to be known is his there is the fatal objection that the meaning of Vedic sentences may perfectly well be understood by those who reject the view that God is their author A very different definition of intention is therefore given ly the Vedantaparibhasa 3 which makes it consist

TC 1: 1 286 318 TA &c w # *TC 1: 1 319-74 TA p *0 BP 84 TSD 4 59 *p *0

in the fitness of words to express a purticular meaning there being no utterance with the intention to convey a different sense the provise being intended to cover the case of equivocal terms like saindhaiam where the intention of the speaker is to convey one sense only

Propositions fall into three classes command (vulli) prohibition (uigeliho) and explanation (aril auada) λ command is a sentence, which come is λ knowledge which forms a base for action as in 'Let him who desires the heaven offer the Jyotistoma sactince. It takes the twist forms of i cut-gorieal imperative (u_iv_ji) applied be trules which must be obeyed in every case or of i per mission ($aniv_j$) as in the case of rites the performance of which is option if λ prohibition affolds knowledge of an act which as injurious as to be avoided while an explanation covers the rest of the held of propositions and includes whatever serves to make clear the meaning of a text. These dristons primarily apply to λ the texts but are trunsferred also to profain works.

2 The Intlode to Speed

The exact nature of verbal knowledge as a means of proof is a mitter of some difficulty and there appears to have been a diversity of opinion between the older and the modern school. Annain Bhatti defines verbal knowledge as the knowledge of the meaning conveyed by the whole sentence and ascribes as its proximate or special cutes the spoken word (qudet) by which the sense was conveyed. This view is consistent in taking the unit of understanding as the sentence and it is unnecessary to suggest that Annain Bhatta may have

To \$63 VVI i 1 3 en plasizes that knowledge is of the thu as

¹ TK. p. 1" \S ii 1 63 d vides into r dh (TC iv "1 ff) archard ta (ibid 460 ff.) and anurida Cf TSD § 81 PSPM pp 110 ff

been prepared to accept the theory as applicable to individual words. On the other hand, the definition viewed in the light of the proximate cause assigned le tives no room for written works. The defects of this view are avoided in the definition of Vigvanatha' who makes the knowledge of words (mada mane) not words the proximate cause on which supervenes the compre hension of their signification the final result being verbal knowledge This view which is that of the modern school is supported by a quaint argument of the word alone were the proximate cause of verbal knowledge how could a verse written ly a dumb man be understood as it is in fact?"

The Ymana Sutra 3 establishes the authority of verbal testimony as the assertion of a trustworthy person against the claim that it is inference in a manner which seems largely to give away the case. It admits that as in inference something unseen is inferred from what is seen and as in inference we argue from a sign e if smoke to a conclusion e g fire so in verbal testimony we draw an inference from a word to a thing signified by it But the answer is that there is reliance in the matter signified by a word because the word is used by richalle person (4/4) There is no perception of con nexton between a word and its sense such as we find at the basis of inference There is indeed a connexion but it is conventional as is seen in the actual facts of speech where diverse peoples use diverse words for the same thing The further objections to the authoritative character of the Ved v based on its falsehood contra he tion and tautolo, are refuted by arguing that the alleged untruths are due to some defect in the rite

¹ BP 81

^{*} NSara p 210 gives gesture and witting as equivalent to speech

* ii. 1 49-57

4 ii. 1 55-60

performer, or instrument, through which the hoped for result of sacrifice, e.g the attanment of a son. is un attained, that the contradictions are merely cases of alternatives permitted, and that the alleged tantology is really useful repetition. The Veda, therefore, is recorded authoritativeness like the spell and medicine because of the authority of then authors, the Sutra leaving it uncertain whether it ascribed the Veda to God The Varcestka Sutra 1 stands in much the same position It asserts the conventional character of language, and declares the composition of the Veda to have been due to intelligence Morcover, it seems to assert that the assumment of names is a proof of the existence of being distinguished from ordining men a statement which if it does not point to the recognition of God as the giver of names, does indicate the recognition of seers ' Further doubt is created by the twice 1 repeated assertion that scripture is authoritative, because it is proclaimed by God or proclaims the duty of min, as the terms tadiaanat are variously, and not without a plausible ground in either case explained, the former version having the authority of Piacastapida though it suffers from the disady intage that God is not directly referred to any where in the Sutra The claim of Verbal testimony to be a separate proof is disposed of by the assertion that it is explained by inference which gives us either the argument that the conclusion is inferred from the fact that scripture is authoritative as proclaimed by God or from the fact that it is authoritative as procluming the sacred law. In any case scripture is freely used by handly to confirm his arguments as it is used by Gantama.

The view of the Nyaya is followed by the syncretist

¹ n 2 14 20 vi 1 1 4 2 1 1 o, x 2.9

¹ m. 2 3

school which in this measure formally departs from the Vaicesika proper, which rejected verbal knowledge as a separate means of proof just as it rejected comparison including both under inference. When words are pronounced they argued 1 and their meaning is recollected there takes place an infurence which may be formulated thus the meanings of the words which are heard are connected with one another, because they are brought to my recollection by the aid of words which are con nected by relations of expectation compatibility and proximity More simply the argument may be put thus before a man can utter words he must appreciate tle connexion between the ideas which he is about to express in language as is shown by their possessing expectancy &c and it is not language which establishes this con nexion The reply of the Nyava Vaicesika as given by Annam Bhatta 1 lests as in the case of comparison on a psychological ground the consciousness resulting from verbal knowledge as a means of proof is asserted with truth to be different from that obtained from the use of formal inference but this reply does not meet the real point at issue Udayana 3 attempts a more formal answer taking the syllogistic form of the Vaicesika argument he seeks to demonstrate that the premisses do not warrant a certain conclusion while anything else than a certain conclusion is of no value

In the \(^1\) acceptance in water and \(^1\) In the \(^1\) acceptance are superscriptions of the Buddhist logic which declined to accept verbal knowledge as a separate source of proof on the ground

TC iv 1 2° ff PSPM pp 63 6 rejects luman test mony as not in itself val d but only if we believe the speaker to be truthful TSD § 63 cf. NSM pp 136 44

³ Kt a. 1ii 13 Cf \Stra commentary p \circ 09 CD p 51 The whole ve vis refuted KAK 1 335 46

^{*1 206} ff above ch i i § 2 pp 106-8

that it was itself merely an effect of the reality which it represented Just as when we see smoke we deduce the presence of fire so when we here a true word we deduce the reality which it stinds for every word then is a crusal conclusion the thing it represents being the cause and the word the consequence of the cause which is the real fact. The place of verbal knowledge there forc in the view of Dignaga is to be found only in the syllogism as ie isoning for another not as an independent me us of proof Pragastapada however departs from the spirit of the Buddhist theory by his acceptance of the authority of the master, Kanada as decisive and in effect the conception of authority nominally rejected by the Vaicesika thus teappears in full strength. It is usy, therefore, to understand how the syncretist school accepted the Nyaya 1 view without question since in recognizing the validity of the dicts of Kanida Pricasta pada in effect rendered the refusal to recept verbul knowledge as a morns of proof meaningless \youngiva2 indeed accepted formally verbal testimony as a means of proof

Not all propositions of course are authoritative that character applies only to Vodic texts and to the utter ances of a man worthy of credence, and a man scredibility depends in the ultimate issue according to Annau Bhatta 3 on the fact that he speaks the truth or according to Keensa Mona that he describes things as they roully

Blasarvaj a (NSåra je 20) h lds tl. t the validity of verbal testi mony is a tablished by experience of its truth in tract to us of the result of sacrib o) and the absence of ground for disbelief in one thus computent to declars, unseen things, which are the main sphere of verbal testimony

² SDST 67 of SSS v 33. * TND . 6 59

^{*} TB , p. 46 TR., pp 94, 95 pr & ranh I rhad re publisher inhand a mink. The dryme authority is dealt with, ibid 11, 12 58

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¹ TC 1v 1 2° ft. PSPM pp. 63 6 rejects luman testimony as not in itself val d but only if we believe the speaker to be truthful 1 TSD § 63 of NSV pp. 136-44

^{*} ISD § 63 cf \S\ pp 130-44

* K s. ii 13. Cf \S\ ara commentary p °09 CD p 51 The whole ve vis refuted KhK. i 333-46

^{1 206} ff above ch 1 ; \$ 2 pp 106-8

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¹ Blasaria, a (Nobra 1 20) I olds that the validation for the diestimony is establifed for experience of its first in pract w (e.g. the result of sace for all y and the above of ground for discheding one flux competent to declare unseen this which are the main sphere of varial testin one.

¹ SDST 6 . of 55% v 33.

ToD , 1 59

TB. p 46 TR pp 31 9 pair routhst had a guidelighted irthan d' pul. The draine authority is dealt with, ibid pp. 1 58

are In both cases the Nyaya view accepts the utter ancea as coinct on the ground that it believes for reasons which it thinks sufficient that they do revial the truth of the universe there is here no question of faith in revelation contrary to the clums of reason a cotoquia vineraliabile is not the attitude of any adherent of the Nyaya what is revealed forms a complete system of coherent truth

The Veda however is not all of qual authority it is divided in the later Nyaya into the four devises of Gruti Smit. Ithias and Puriaru in a descending order of value Gruti is the primary fountain of knowledge Smit is avuilable only when it does not contradict it or when Gruti is silent on the point at issue—the other two sources are of inferior importance. Quit again includes the four Vedas each with its subdivisions of Samhita Brahman and Aranyaka including Upamsa I Smit is represented by the law looks and Itil as and Puriana by the ope and the Puriana. The Gruti alone is treated as divine in origin and therefore unconditionally worthy of crelence the other authorities hive human authors and therefore are hable to be expounded.

The claim however that the Gutta is the work of God is assured by the Mamara, which urges the view that the beda is not the work either of man or of God I ut exists for even in its own right. How they ask, could God who as incorpored has no organs of speciel utter the words which make it up? If it be urgued that he assumed a human form for the, jurious of revel thou the

1 Athalye TS p 3.00 FSPM pp 1°8ff 2 CV pp 3.0ff S58 553 5 SDS p 104 Cf tie Sankiya vev

SS. v 4º 15 ft where the authorate p and eternality of the Veda are denied b tits soft proved author ty upled PSPM. p 66 for God's authorsh; see hus n and w

answer is that by such assumption he would lose his power of revelation, being subjected to all the limitations of material existence Moreover they deny that there is any tradition of either divine or human authorship the sages mentioned apparently as authors did no more than apprehend the hymns and hand them down in schools. Positively they addice passages which assert that the Veda is eternal and uncreated Against them the Nyava I urges that other passages assert the creation of the Veda, but it also adduces more effective arguments All propositions which we know of have authors as in the case of those we ourselves enunciate of those of the Mahābhārata. To the Mimansa setort that the argument applies only to works whose authorship is known as in the case of the epic, the Nyaya replies that the author ship of God is assured for the Veda by the testimony of Gautama in whose school it has been handed down Moreover if the Veilas were iternal, the sounds in them would coexist from eternity, and it would be impossible to arrange them in the dehberate order which alone permits of their being a means of verbal knowledge. The Vedas, then, must have an author, and their transcen dental usdom forbids our supposing that any man could have excontated them, leaving us no option but to ascribe them to God.

The Minansa, however, his no hesitation in asserting that sound is eternal * it is a quality of the ether and like it eternal, the beating of a drun reveals it to our ears, but does not call it into being, when any letter is

texts

^{&#}x27;TC w 1 83 ff , ToD, \$ 62 with Vilakantha's commentary , NSara, pp 29, 214 16

^{*} MS 1. 1 6-23, GV, pp 408-85 (words), 486-552 (Veda) PSPM, pp. 56-61, cf. Quillara, BS 1 3 25 Muller's theory (Six Systems, pp 196 ff, 520 ff) of the word as a creative power is clearly not in the

pronounced in our hearing we recognize it at once with absolute certainty, which would be impossible if its evistence were momentary only as the Nyaya believes. The Nyaya rejects the doctrine of the eternity of sound Gautania I gives three reasons for this view, that sound has a beginning, that it is perceived by an organ of sense, and that like any other product it has attributes if we recognize as we do a sound like ga when pronounced by the respective of the sense it is because of the identity of the specific character (juti) of the sound which always recompanies it whenever it is uttered or in a honely simile it is like the fame of a lamp which, left after being extinguished is never theless regarded by us as the same as the fluine which originally stool in its place.

The Yeda then is for the Nyayi a divine revolution of elemal truth but it is supplemented by the state-neuts of men whose knowledge of the truth confers upon them are, bit our belot? Such men are Gautami and Kanuki the founders according to tradition of the Nyaya and the Vaigesika systems and it is in the light of this position that the importance of verbal knowledge becomes clearly revealed. The aim of philosophy is not to discover a theory of the universe it has the more modest aim of enabling, us to understand as a reasoned system those truths which are revealed for us by seripence or discerned by seems with the superhuman power of direct perception which such men as we have seen command. It is not enough, that man should accept tradition alone for his beliefs them would be blind and maccurate he must study the lines of reasoning land down in the systems which establish how the truth of

¹ NS il 2 14-59 TC ir 1 3 5 161 Noara pp 29 216 19

THE NATURE AND AUTHORITY OF SPEECH 173 the revelation can be apprehended. But, if man were to attempt this study without the aid furnished by the

to attempt this study without the aid furnished by the declarations of the seers, his chance of success would be negligible mere ordinary reasoning and perception do not avail in the dectrine of the schools to serve the

fundamental truth of the universe.

determination (nin naga) the minth category, of formal discussion (nada) the tenth category, and of wranging (nama) which are the eleventh and twelfith in the series

With the advance of the philosophical character of the school these dialectical extegories became of less and less importance and in the syncretist texts which adopt as a rule the order of topics suggested by the Vaigesika extegories they are little noticed. But Kegava Migrarespects the order of the Nyaya, and from him and his commentator Govardhana it is possible to gather some knowledge of the development in conception of these categories which took plues letween the time of Vatsya yana and the modern school. It is of some interest that while kegiva Migra tends to accord with Vatsyayana, his commentator follows the views which also find expression in Vigvin ithe s commentary on the Sutri

This division of opinion is specially marked in the case of the entegory of principle or dogina (suddhauto) which Gautinana' describes and subdivides into ordises but with such signeness of expression as to leave full room for the ingeniuty of commentators. Its real sense is doubtless that of a tenet considered as part of the system of a school in the later definition of Accar's Migrat Appears as a thing doubtled because it is established by one of the means of proof which is wider in extent but not substantially different since the tenets of schools all rest on some form of proof. But it seems, further to have denoted a result in the nature of a corollary from admitted principles and the proceeding by which a principle of the opponent is admitted in order to refine him by showing that some proposition which he systems is inconsistent with that principle

^{*, 1 26 30} v 11 NB) and NV TB pr *3 94 SDST pp 4 35 QS4J xer 330 TR, pp 1*0-4

Of the four divisions of this entegory the first is the principle which is not contrary to the views of any school and is accepted in one's own schools Examples are the existence of the five senses and their objects as given by Vatsyayana or of sound, even if we doubt its being eternal or non eternal all admit that there is such a thing to adopt Kecaya Micra's instance The modern school give it a special sense is applicable to a principle which is conceded by two disputants engaged in a dis cussion for the purpose of that argument The second class consists of the pratituitra suddhanta which is defined by Gautama as that which is accepted by similar schools but rejected by other schools. Vatsyayana illus trates this from principles common to the Simkhya and Yoga while Keçava Migra chooses instead the Njaja and Vaicesika for his example a difference probably significant of the fact that in Vatsyayana's time the similarity of the schools was not yet so far advanced as later. The modern school with Govardhana take a different and improbable view they mean by it a prin ciple proper to one school and rejected by another as the eternity of sound is asserted by the Mimin's and denied by the Nyaya and vice versa. The third class adhakarana addhanta is a principle which follows from the establishment of another principle rather than a hypothetical principle" which if accepted, leads to the acceptance of some other for it is illustrated by the suggestion that if we recognize God as the creator we must recognize as a corollary his omniscience

On the fourth class the abhyupagama suddhanta there is an acute divergence of opinion. According to

So TR., p 171, who gives the authoritativeness of God as a case
 As taken in SBH with 9 NBh makes it a principle the establishment of which involves establishme other points.

Kecaya Micra the obscure text of Gautama meins that one admits a view of the opponent without examination of its validity in order to follow out its consequences and thus refute another view of the opponent. Thus a Mimansa disputant may admit in arguing with a fol lower of the Nyaya on the nature of sound that sound is a quality hence he deduces that as sound is in the Ny aya view a quality of the ether which is omnipresent it must be without parts and so cannot grow in size This confutes the Nyaya argument for the non eternity of sound based on the fact that it grows and diminishes in intensity The moderns again with Victanatha and Govardhana understand this form of principle to be one which not explicitly stated in the text of a school is implied in it as in the case of mind in the Nyaya view for while it is not included by Gautama as a sense organ or means of proof but as an object of proof it is inter preted by the school to be included in the class of sense organs It is just possible to make either sense accord with the words of the definition

The minth category determination (nir ay i) on ascer tainment is defined by Gautama 2 as the ascertainment of a thing after reflection on the arguments for and against it It is clearly nothing more than the definite result of a controversy (katla) the different kinds of which are specified in the tenth eleventh and twelfth categories. The discussion (i ida) is a serious debate carried on by those who seek to establish truth by means of thesis (palsa) and counter thesis (pratyxika) It must not contravene the principles of the school must whether in demonstration or refutation be based on the

¹ So NBl 1,1 30 offers so NV and NT
2 1 141 TB p 9 TSD 581 NS4rs pp 15 149
5 NS 1 2 13 TB pp 97 100 TSD 581 SDST pp. 7 9
GSAI zix 334 8 NS4rs pp. 15 16 151 61 TR. pp 205 16

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rules of logic, and take place in syllogistic form. There are excluded, therefore, all the means which appertum to sophistry rather than to serious discourse thus frauds (chala), futile objections (jāti), and cavilling (vitanda), wrangling (jalpa) and occasions for reproof (nigraha-sthana) are all out of place An exception is however, sometimes made of four kinds of occasions for reproof, namely fallacies, which in any case are to be attacked, and the three peculiar forms styled deficiency (nyūna), which means omitting a member of the syllogism, redundancy (adhila) which means adducing too many members as by adducing more than one reason or example, and deviating from a tenet (appauldhantu) These are clear cases which invalidate argument, and therefore are suitable for challenge But the discussion must be conducted on the basis of the principles which the controversialist accepts it is impossible to censure a Buddhist for not using the Nyava syllogism when his own school recognize two members only in hea of five Quite opposed to the dispassionate argument (vilaragalatha) is the passionate contest in which victory alone is the aim and in which frauds futile objections and occasions for reproof are the stock in trade Such dis

cussions are divided into two classes the criterion being whether or not there are both thesis and antithesis. In the former case we have wrangling in the latter mere

cavilling



B METAPHYSICS

CHAPTER VII

ONTOLOGY

1 The Cutegories of Kanada and Gautama

In the syncretist school it is an accepted doctrine that all things that can be known and named that is all things which exist, fall under seven categories (midaglia. object (corresponding to) a name) These are substance (drawa) quality (guna) motion or activity (Larman), generality (samanya) particularity (vicesa) and inherence (samaiava) which may be regarded as positive categories, and one category of non existence (ublidea) It is however certain that this does not represent the ancient view of the Vaicesika. We have the express statement of Pracastapada that the cate rories numbered six, and this tradition prevailed long after other evidence shows that the last category had been recognized Madhaya thus expressly states that the number of categories in the system is six as does Hari bhadra 3 though his commentator adds that others recognize non existence. The exact period when the new category was added as unknown. It was anterior to Cridhara, for in his exposition of Pracastapada 4 he insists

* SDS p 86

* N. P 7

I Hence the name of the Vaicesika system in Pracastanida.

⁸DS, 60, GSAI xx 34, 25, so SSS, v 19, 20

that the category of non existence is implied though unexpressed, explaining its omission as due to the relation in what it stands to existence generally and in another work of the same century. Udayana divides the categories into existence (bhāti) and non existence (abhāti) and then subdivides the former head into the usual six. Thus by this date the recognition of non existence as a separate extegory parallel in a sense to the six positive categories had come into being, but the full step of reckoning the categories at seven had not yet been definitely accepted. We find this process complete in the work of Cividity a which is styled Sapiapadarthi the sevenfold character of the categories thus appearing as definitely established.

It is less certain whether the six categories as such were recognized by Kunada. The text of the Sutra 2 in one place expressly enumerates the six and though Pragastapada s³ treatment of the topic may be invoked as proof that the Sutra was not in this condition when he used it, this is not sufficient proof in view of the fact that Pragastapada is not a commentator proper. What is much more important is the fact that Kanada 4 evidently conceived the first three categories to stand apart from the others, he applies to them only the term object (airl a) and in treating of the contemplation attained by You's he deals with the vision thus acquired of the first.

¹ Lahanarar p 1 Kir, p. 6 so TR, pp. 180, 163, 164

^{*} pp. 6.7. Bodas TS, pp. 90.2. Vältyäynnan sue of tle categories. (NB. 1.1.5 and 9), is conclusive for the precipity to Pra-stagation. The Ministrat has the same set of four or in Prabhákvia case five to which he added capacity, number and similarity, TR, p. 162, p. 20. PSPM, pp. 88. 91. Regl anattl a adds çakii an abyd states where here.

^{*} viii 2 3 For the distinction of astata in all six categories, sa thanhandha in the first three sultimastitis in the last three, see PBI translation to 49 of M. no 223 ff

three categories only ¹ It is still more important that Kanada specifically declares generality and particularity as relative to the intelligence ^a which at once gives them a different place from that of the first three categories, while inherence appears only as the relation between cause and effects ^a The conception of the categories as a complete division of the real universe is therefore to be useribed either to Praçastapada or to some predecessor in the school.

Gautama's categories as we have seen, are rather divisions of a treatise on logic, and it is the second object of proof (pramejay) which most neadly corresponds to the categories of Praçastapada. The heads of that citegory are the soul or self body the senses the objects of sense cognition mind activity error transingration the effect of good and evil deeds pain and liberation. The list is completed by purpose (prayogana) which uppears as the fourth of his categories. The confusion involved in such a division is obvious and explains fully why the syncretist school save Kegava Migra follow the Vaicevika in their tientiment of categories.

2 Substance, Quality and Activity

Substance is a distinct genus but a positive definition can only ascribe to it either the possession of qualities and action or being the intimate cause of a product of

¹ ax 1 14

² 1 2 3, hence the mysterious buddhelahanan; of the last three categories in PBh, cf Kir, p 30

³ vii 2 26, hence it is not very closely parallel to Plato s supous a (cf. Lutoslawski Plato s Logic p 254)

⁴ TB, p. 69 TK p 1 TS § 3 TR p 182 For the Yoga view of Wood s Yoga System pp xv zvií

² VS 1 1*10 has all three PBh, p 21, uses the criterion of indestructibility by causes or effects of Kir, pp 32 4 43,44 VS 1

⁶ TB , p 63 , BP 23 , TR , p 132

The first suggestion, however, is contrary to the principle that at the moment of its coming into existence a sub stance has no quality, while the latter expresses a fundamental principle that only substance can give rise to a product Quality agun as defined by Kanada,1 has substance as its substritum, is without quality, and is not a cause in conjunction and disjunction, a point which differentiates it from activity or motion which is defined as abiding in substance, devoid of quality, and the immediate cause of conjunction and disjunction 2 Motion again differs from quality in that the latter resides permunently in substance, the former temporarily Be yond this definition does not go the Vedanta recognized the impossibility of defining it, and called it inexpressible (anirucaniva), while the Buddhists demed its existence in toto a tenet which the Nyaya Vaicesika wholly rejected, as well as the Buddhist doctrine of activity or crusal efficiency 2 as the one mark of reality

To the Buddhist argument that all is non eternal the Nama Sutra' replies that then non eternity is cternal nor can it be argued that what is non eternity persists utterly like a fire when its fuel is burnt out. There is a distinct divergence in our perception, what we can see produced and destroyed is non eternal, the rest is eternal and the counter argument that, if the atoms are eternal then their products should be so is opposed to facts of

¹ VS : 1 16 SP § 68, TB p 78, TK, p. 1 TSD, § 4 1 VS : 1 17, PBh p. 290, SP, § 69, TB, p 86, TK, p 1, TSD, § 5

TSD, § 5

'NB, p 103, NBT, pp 4, 5, 9, 16 17, SDS, p 7, cf SBE xxxv
410, SBY1, pp 21 ff NK, p 12, SDS, p 20, NVT, pp 387 ff
TR, pp 13 ff

⁴ rv 1 25 40 Cf the Mimhhas arguments, CA app 119 82, Cankara on BS. ii 2 31, NK pp 41, 42, SSS i 34ff For the Buddhut view see Makhydansifrula nkara xviii 82 103, lainakirti, SBNT, pp 90 77, SBS, p 12, SSS iv 2 9

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perception and the conception of time. Nor is it true to contend that there is no substance apart from its qualities, or whole apart from its parts. The substance is marked out by its possession of parts or qualities as one we recognize the jar we saw yesterday which we could not do if there were nothing but sensations of touch and colour. If it is argued that nothing is really existent because it is non evitent as regards any other tinns, 'A horse is not a cow, the reply is that each thing has a true evitence which necessarily excludes the other. It the same argument is based on the necessary relativity of all things, the answer is that relations imply terms as much as terms relations.

Elsewhere the question of whole and part is defended against the argument of unreality in connexion with the suggrestion that perception is really inference as we see only part of any object and not the whole If there were no whole it is pointed out there could be no per ception, for without a unit everything would be liable to resolution into its ultimate atoms which are not per ceptible Yet another attempt is made to meet this issue 4 The Buddhist opponent asserts that the whole (arguanus) cannot exist since the parts cannot reside in it either as a whole or partially nor can it reside in them nor apart from them nor is it identical with them. The answer given is that the attempt to treat the conception of a whole as a matter of spatial location is mistaken whole is something over and above the parts, which stand to it not in a spatial relation but in a unique

¹ Madi ya naka Frile, pp 64, 71 Aryadeva in M Frile p 71

M Suira zv 1, 6 Arywato kum S tra in Vrth p 90
1 1 30 6, NB, pp 80-6 NV pp 213-52, insist on the argument that aw is obs sneessary to explain our conceptions of mygnitude, conjunct on motion, and class a cursors argument as to weight as a criterion of a whole as found NV, np 237

⁴ tv 2 4 14 Cf QV, pp 32J 47, SS 1 42 PSPM pp 00 8

relation of inherence. The question stands of course in immediate relation to the kindred one of cause and effect, the Buddhists' deny that an effect before its production can be described as existent non existent or both, the Nyāya'z contends that a whole which is an effect is non existent before its production from its causes, thus keeping in harmony with their doctrine that a whole is something entirely other than the parts from which it is made un.

There are nme substances the four atomic earth water fire and air, other, time and space, the self or soul and mind. The existence of yet another is postulated by the Minansas of Kumarila 3 to explain darkness whose claim to be a substance rests on its possession of blue colour and motion. These attributes are denied by Annam Bhatta 4 who declares darkness to be no more than the absence of large illuminating light in general a view akin to that of Frabhakara who held that it was the absence of knowledge of light while Crithana 4 suggests that it the imposition on something else of blue colour. Darkness, therefore is classed with non-existence pure and supple as it is illegitimate to attempt to set up special categories of non existence corresponding to each form of being

The qualities enumerated by hanada are seventeen colour, taste smell, and touch, numbers dimensions individuality, conjunction and disjunction priority and posteriority cognitions pleasure and pain desire and aversion and volitions. The lith has obvious immerfec

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¹ M S tra i 6 vn 20 Aryadeva in M Fftt, p 16 cf Çankara BS 1 2 26 27

^{* 1}v 1 48-54 below \$4 * CV p xl Am SS 1 56 PSPN p 93

TSD 43 BM on BP 3 see \S v 2 1) 20

^{*} TSD § 3 BM on BP 3 see \S v " 13 "0

* NA p 9 ef SP §§ 55 170 kir, pp 15 20

tions and the commentators from Pracastapada 1 down wards are unanimous in interpreting the word and' used in connexion with the last member as implying others The orthodox list is made up to twenty four by adding gravity fluidity and viscidity, merit and de ment sound and faculty the last vague term being extended to cover velocity elasticity, and mental impres sion But some reduce the number by three omitting priority and posteriority as depending directly on time and space and individuality as the special form of non existence styled mutual non existence (anyonyablara) Others however, increase the number by three or four adding lightness softness or hardness and laziness but these are rejected by Annam Bhatta2 on the ground that lightness and laziness are the mere negatives of gravity and volition while the other two depend on the degree of communition or disjunction

Of these qualities 3 five belong to all substancesnumber dimension individuality conjunction and dis junction and may therefore rank as general qualities Time and space have no others the other has sound The four atomic substances have the five general qualities and priority and posteriority air has also tangibility or rather temperature and velocity fire has temperature colour fluidity and velocity water has the qualities of fire with the addition of taste gravity and viscidity earth has the same qualities as water less viscidity and smell Mind which is regarded as cort oreal (murta) has the seven qualities of the atomic substances

¹ p 10

TSD § 4 cf for othe s NK pp 10 ft BP 20 34 clast c ty also belongs to all tang ble th ngs

In the school form pology (PSh p. 96) this class includes priority posteriority gravity artificial fluid ty and velocity. But only the 5 a belong to all substances. Comparison with pr mary qualities is m slead _ All are real NL nn 59 96

and velocity The self has the five general qualities, and nine of its own, cognition, pleasure and pain, desire and aversion volution ment and dement and mental impression, while God has the five general qualities and cognition desire and volition alone. While the qualities generally are attributes of one substratum only, con junction and disjunction number beginning with two and individuality, in so far as resulting from reciprocal exclusion between two or more things, must have a multiple substrate 1

More important for the distinction of substance than any of these divisions is that between all pervading 2 (gatatia) substances which have extreme magnitude (paramamakatmamanauattra) and those which are corporeal (murta) and have limited magnitude (para chunaparimanavattva) or as is equivalent motion since that implies the movement of the parts or whole from place to place which is possible only if the substance is limited in space Corporeal substances include the four atomic substances and their products together with mind The other substances are unlimited, and enter into conjunction with all corporeal objects, they are the self, time and space and the ether The last and the four atomic substance" constitute the elemental substances (bhūta-dravna) which singly or by combination among themselves become the material causes of all the products in the universe Again substances are divided as eternal and transient the atoms, the ether, time and space the self and mind are eternal, the products of aggregation are transient

The special qualities fall to be considered together

^{1 11} h p. 95, BP 86-8

^{*} TSD, \$14 Nhora pp 705 706, PBh, p 22, Kir, pp 84, 85, cf Raghunatha, PTN pp. 20 7, who claims that blute and mirte are true classes

with the subjects to which they appertain, but the though they are real they are not necessarily so in the same way as the special qualities This is most clearly seen in the case of number which is defined as the cause precisely the proxunate instrumental cause, of the use of the terms one, two three &c Of numbers umity is eternal and resides in the individual atoms and the other substances which are eternal plurality exists only in products which are transient. But the Nyava view is that duality &c are real like unity and are only revealed by cognition the Varcesika insists that all numbers above one are the creation of a relating cogni tion (cpeksa buddle) and not merely made known by it.

The process is thus described—first there is contact of the sense organ with each of two jars then the know ledge of the genus unity then cognition operates relatin the objects each recognized as This is one duality is created thence the knowledge of the genus of duality, thence the recognition of duality as a quality in the two things, and finally there is left only the impression of plurality for as the relating cognition is form of consciousness it can endure for no more than three moments as soon as it has produced the knowledge of the quality two in the objects it disappears and with it as cause must go its effect. Other numbers are arrived at in the same way for though some recognize indefinite multitude (bahuten) as distinct from definite numbers this view is generally rejected. But though

¹ Frestan PBh pp 111 18 SF 55 26 87 TB pp. ⁷⁰ 80 TK pp. 5 TS 47 4D Pl 069 9 VSD pr 1 11 Annulas doctors tunity is given VS, vu 2.1 2 S. CT TR p. 130 45 d. p. 164 Palal Alara S doct no e f. a specia clategory tuniber as refuted Cowell SDS pp 1.04 Reghunatia (p. 75) accepts it of Pudtr-Chromitantile pp 29 29.

the Vargesika thus accepts all numbers over one as a product of mental activity, it does not extend this view to unity itself

On dimension (purimana) the school has little to say It is the proximate instrumental cause of the use of measurement, and may be divided into four kinds minuteness (anutra) largeness (makattva), length (dir ahatva) and shortness (hrasvatva) but this rough division between magnitudes or two or three dimensions and those of one only is often dropped and as in the Sam khya only the first two recognized Each class again may be subdivided as medium and extreme the ether has extreme greatness, a product like a pot medium greatness, an atom extreme minuteness, a binary medium minuteness Dimension is eternal in eternal substances transient in others, in the latter the dimension is de termined by the number magnitude and arrangement or aggregation of parts 2 but in the former, as an essen tial part of the atomic theory by number alone. But of the precise character of extension there is no investi gation though it is deemed to be absolutely real and not dependent on cognition

Individuality (mtlaktea)² is the proximate instrumental cause of the prictice of separating one thing from another. As against the conception of reciprocal non-existence (anyonyeblatea) with which some sick to identify it it is real not notional in character. The post is not a piece of cloth is essentially different from The pot is separate from the cloth, which makes it

^{&#}x27;PRh, pp 130 2 SP 55 2" 83 TB pp 80 81 Th p 5 TSD 5 25 BP 109 13 TR p 144 SS v 10

VS. vs 1 8 9 with commentary

PBb p 138 SP 4428 89 TB p 81 TK p 5; TSD \$26 BP 113 114 Ct VS vii 2 2 8 TR pp 144 15° It is denied the rank of a quality, as are priority and posteriority by Raghunatha PTV, pp 28-30

clear that the two things are positively distinguished Aguin, we can say that a pot is not the quality of colour which resides in it, but not that the pot is separate from the colour. Individuality may be eternal or transient according as the substance in which it resides and by an adaptation of the theory of number a distinction obviously of no value is made between the individuality of a single thing and that of two or more objects which is produced by the operation of a relating cognition but individuality itself is not due to cognition but absolutely real and its relation to number is not examined save in the unfortunate hypothesis of two kin is of individuality.

Conjunction and disjunction (samyoga and vilhagi) also appear as real being cuused by motion. They are tle proximation instrumental causes of our use of the expressions united and separate and are artificial and transient as they apply only to the contact of things which have been apart and the separation of things which have been apart and the separation of things which have been united. Contact is primarily and properly due to motion (karmaga) whether unilaterial as of a bird to a tree or bilaterial as of two butting rams. Secondarily it is due to another conjunction thus the body is united with the tree through the conjunction of the hand and the tree and an effect on its production thus becomes united with something already connected with its cause. Direct conjunction may be produced by a violent motion like sound or by a gentle motion. Every kind of conjunction affects a part of the thing only and may be destroyed by separation or by the destruction of the things connected.

J VS v1 2 9 11 with commentary PBh pp 139-41 151 4 SP 5429 30 90 91 187 TA pp 11 1º TB p 81 TK pp 5 6 TS 5427 °S BP 110 20 TR p 144 PSPM p 98 Padarthara tnamada pp 32 53

part is distinct from the act of separation which is due to motion, and denotes the state of separation existing between two things formerly in contact. It is subdivided as is conjunction but the Vaicesika alone accepts the doctaine of disjunction by disjunction as in the case of the disjunction of the body from the tree by disjunction of the hand. This denial that the motion of part is the

Indian and the whole is repudiated by the Nyaya school

The part played by the category motion in the pro
cess of conjunction and disjunction is simple it is the cause by means of separation of the conjunction of an ol ject with another point of space after there has taken place the breaking up of its conjunction with an anterior point of space. Motion thus takes place in five stages an object is in contact with a definite point of space, by the effect of motion it separates itself thence, thus there arises the destruction of its connexion with its first position in space, then there is conjunction with a new point of space, then the motion ceases. Motion may be vertical, throwing up or down horizontal ex pansion and contraction, or of any other kind summed up in the generic term going. The term used for it which signifies properly actuaty (karman kraya) is significant it suggests that it originally had a wider conception in which it applied both to volition and conception in which it applied both to toilion and motion as the two great aspects of activity and his come to be restricted to the latter by the designation of volution as a quality of the self. Motion as defined is in all its varieties transient and is destroyed either by a subsequent conjunction or the destruction of its substrate, substance

^{138 1 7, 74 37 1, 1 23,} PBh pp 290 97 T1, p 14 TB, p 86 TK, pp 1, 20, TS, \$15, 76, BP 6 7 TR p 156 PSM, p 1, Polythrochaemolog, pp 40 2 e 58 Kumārila ÇV, p 235 Temer is no trace of recognition of chemical action in Annals he recognizes épok only, not dilocome.

Unlike the other general qualities priority and posteriority are restricted to the four atomic substances and to mind and in the latter which is eternal they are spatial only. They are the proximate instrumental causes of our conceptions of near and far in space and time alike. As such obviously their attributions as qualities to objects cannot be regarded as in any way ultimate as we have seen this recognized by some members of the school who remove them from the list of qualities. An important admission as to their dependence on thought is made by Pragastapada when he recognized that the judgement by which one object is assigned a position in time or space relative to each other is due to the operation of the relating power of cognition (pepskabuddhi).

While the ultimate atoms, air the other time and space the self and the mind are inferable only in the Augesian view though the Nyaya permits the direct perception by the mind of the self the qualities are for the most part the objects of perception if present in objects possessing magnitude. Thus the five qualities of temperature or touch, colour, smell and savour and sound are perceived by one sense organ only 'that appropriate in each case the five general qualities together with the illegitimate qualities of priority and posteriority and with fluidity and visculty are apprehended by the two senses of sight and touch, cognition, pleasure and

¹ NS vat 2 21 3 with commentary PBh pp 164 " SP \$5 31 12 138 TA p. 10 TB pp 81, 82 TK pf TS \$29 BP 121 5

¹ p. 9 Th, p. 10°

1 Plih. pp. 96ff BP 9° 93. NS iv 1 € 12 requires colour for all visual perception which it alone recognizes as perception proper (cair so), so 3 th is 1 67 NN, pp. 23° 235 NSM pp. 3-6 but he later view in in Nara, pp. 23° 5 CK fit; pp. 82-67 NN pp. 44 65 For magnitudeses NS. iv 1 6, NS iiL 1 6 with NBh an 1 NN, TP, p. 7°

cognition 1 it seems to follow that he conceived that if a property resides in many things and if we use that property as means of grouping these things it becomes property as means of grouping mess timings a seconical as a general property (edinarya) and that if it is regarded as distinguishing these objects from other objects it is a particularity (eigew). But on this substructure Piasasapada. and the whole school have built a rigid realism which regards generality as eternal, one, and residing in many things but only in the categories of substance quality, and motion As eternal it is distinct from such things as conjunction and duality which though residing in many are transient, as one it differs from the dimension of an atom, and it resides in many by inherence (samaraya) thus differing from absolute non existence, which is not so connected with things Generality may be divided according to its degree into the major and the minor 3 the former of which consists of existence alone, which is found in the three categories of substance quality and motion while these categories themselves are minor generalities. But from another point of view a threefold division may be preferred that of most extensive (1 maxika) which includes essence that of intermediate (vyāpya vyapsika) which includes the three categories, and that of narrowest (vy tpya) which covers such generalities as the genus pot where the term cenus is to be understood as referring to the common characteristic and not to the in lividuals com prised under it The latter division accentuates the fact

is 2.3ff Bully explained away in hir p 30 and in NK as meaning that their existence is proved to intellect.

meaning that their existence is proved by intellect.

3 pp 11, 12, 311, 312, Kir pp 22 4 SP §5, 7, 0 111 Tt., p 14,
TB pp 86, 5, Th., pp. 1, 20 TB, §5 6 7 BP 8 10, TR.,
pp 159 159, Individuals on 11, pp 42-4

² PBh Le #1S, triats the lower generalities also as species rela-

TA. Le SP, § 111 For the Department weed by pp. 35 ", 63 "t

that the general characteristic is deemed to be something which actually exists and in harmony with this view it is made the object of perception either by means of all the senses in each appropriate case, or of mind alone in the latter case falling under the concept of extraordinary or supernormal perception. The reality of generality has also at the basis of all predication

Generality as true is immediately connected with its substance quility or motion and in this aspect can be styled a time class concept (jati) On the other hand there are common characteristics whose connexion with a number of things is only mediate and which therefore innk only as mere generality (upadh). The causes which prevent a common characteristic or mere generality becoming a true generality or class concept are given by Udayana* as six If there is but one object such as either there can be no class If the same object has different names such as pot and pitcher there are not two separate classes. If there is cross division a class concept is excluded thus the four atomic substances and ether constitute the products (bhūta dravya) the same four with mind the corporeal things (nuwta dravya) and thus neither can be a true class. Nor can there be a class of a class on prun of a regressia ad anfantari. Again the notion of particularity absolitely refuses to allow of forming a class of it. Finally, as every class concept researce and esteen concept researce and esteen of the other can be a true class.

* Kir p 38 C ted in TA p 14 SM on BP 8 SDST 65 according to NS is 2 71 a pin is samdnaprason in k and has a distinct form

(akri) as its s gn Cf NM pp 297 310

the Plato, Soph Sole 255a, for the categor es of circ array: reper source for represent to the 1.3 Generally as not dependent on the ndir duals but does not exist apart from them. It is at once it reads with and it rear about Cf above eli, 91, 9, 91

there cannot be a class of inherence for else we would have the absurdity of inherence as a class residing by inherence in inherence. The distinction therefore is clearly that between real natural classes corresponding to facts in nature and classifications based on our thought only and it is by no means unlikely that it was this distinction which made the jounger school persist in or even invent the conception of generality as aboutlely real. Such a conception afforded an answer to the apparent difficulty why we should frame such obviously conflicting inleas as those expressed in howeledge of true and arbitrary or shifting classes and induced the school to adhere to their realism? despite the strong attacks directed against it by Buddhista and Jains like?

To particularity Kan'da refers only in its connection with generality as dependent on cognition's while he elsewhere distinguishes it from the ultimate particular ties residing in the ultimate atoms of matter? On this Priçastapada's and the rest of the school of the Vaiges is as found their theory of particularity as an independent reality residing in cternal substances that is the atoms and the other five substances and distinguishing them from one another. The necessity for such a distinction is established thus We can distinguish between any ordinary of jects by enumerating their constituent parts the empiric individual being that which has a bodil's form and special qualities? but when in the

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^{&#}x27; So Kun trila CV pp "01 6, "10 330-40 464-8 of "S. v 91 3 where also ("4 6) a milarity is rejected as a separate category as 1 y 11 a Nyaya PSPM pp. 90 ff

ile Nyaya PSPM pp. 958

Açoka, Sim. nya limnoprasir il SBNT pp. 94-10° Can Iraprabha
Fra negaramakoga ch. xix. NB, p. 115. NPT p. 84. SDS p. 10

^{*} pp. 13 241 50° SP 55 9 71 TA p. 14 TR p. 8" TK pp 1
*0 TS 55" "3 1P 10 TR pp 1 9 160 kir pp. 24 2
* NS 5. 2 Cu

h 2

ultimate analysis we reach simple substances like the atoms or selves we can find no parts to permit of dis tinction yet as we are assured of distinction we must assume that there lies in each individual a quality sur generis which makes it distinct from all others and serves this function alone. To this view the objection was taken before Pragastapada, and is adopted by the modern school of Nyaya that there must be somethin. to differentiate the particularities and the reply is made that this is a function which they perform for themsels es as well as differentiating the substances in which they mhere It is hardly surprising that this expedient should have proved unconvincing and that the retort should be made that there is no good ground for not attributing to the atoms themselves the inherent nower of self discrimination instead of multiplying entities. Noi has the doctrine any acceptance 1 in other schools being rejected by both the Prabhākara and Bhutta schools of Mimansa the Vedanta Buddhism &c. In any case it is admitted that particularity cannot be the object of per ception but can only be inferred

Of inherence kanada² tells us only that it is that through which it is said of cause and effect that the one abdes in the other (literally that this is here?) but the principle is already developed in Praçastapida² to the definition that it is a connexion which exist between things which cannot exist separately and stand in the

Species of course is accepted bit not part cultrity of TR. p 163 PSFM p 90 The schools use recent lad earlin nately in both senses Ragl unitha (FTN pp 30 32) denies particularity, of Pad vit at toa in pp. 44 8

vii 2 26 of z 2 1ft

"Ph pp 14 324 9 SP 44 9 "2 TA. p 14 TB. pp 16 17

TK pp 1 20 TS 44 8 79 BP 11 of 5D5 66 with Gunaratna

VSU vii 2 °6, 2 TR pp. 160 3 Kir pp 25, 26 NV pp. 55 56

206 ANA ii 82 4 Raci matths (r ° 6) dense its with 82 4 Raci matths (r ° 6) dense its with

relation of substrate and that which exists in it, and which produces the concept expressed in the word 'Here' There is no substantial difference in the modern definition of inherence as one and consisting in an eternal relation between things which cannot exist separately (umila saldla) The description as one and cternal is intended to refute the objections of the Prabhakarus and the modern Nyaya which reject both appellations The unity of inherence is proved like the unity of existence by the fact that there is no difference in numerale between the different cases in which we infer the relation of inherence. The eternity is moved by the simple argument that, since every cause is linked to the effect by inherence, assuming that inherence were an effect it would be based on itself, which would lead to a regressus ad infinitum, and therefore be absurd But the eternity is relative, not absolute, like that of the atoms . It denotes only that the relation can only disappear with the disappearance of the things related Such a relation differs entirely from comunction which can only exist between things normally separate, and it is confined to the five cases of the relation between the product and its parts both of which must be substances, substance and quality, substance and motion, generality and the individual and particularity and the eternal substances in which it resides From the fact that it exists between things which are imperceptible such as sound and ether as well as between objects of sense the Vaicesika I deduces that inherence is objects of sense the vargetical deduces that inherence is an object of inference only, but the Nyaya insists that it can be perceived by a special process of perception. The difficulties of the doctrine have not failed to

awake lively criticism, especially as the view of inherence

¹ PBb , np. 3_8, 323 , Nkoca, p. 881 , VSU vii 2, 28

stands in indissoluble connexion with the doctrine of causation The Bhatta Mimausa Vedanta Samkhya and Buddhist alike decline to accept it, and Cankara in particular distroys the conception in his exposition of the Val into Sutra. He points out the impossibility of the argument which seeks to distinguish conjunction and inherence, the former is eternal as well as the latter, for instance, in the case of the relation between other and the ultimate atoms, it is useless to assert that in herence can exist without a third thing to unite it with the things in which it exists while conjunction needs inherence to hold it to the things which are in conjunc tion and the difficulty is not removed by the verbal expedient of calling one a category and one a quality Moreover, the argument that there must be this relation letween cause and effect cannot be accepted. If cause and effect are inseparably connected as the largestka holds then is it not far more simple to assume that there is identity of essence between the two? Moreover the conception of inseparable connexion contradicts point blank the idea that cause precedes effect which is an essential part of the Nyaya Vaicesika doctrine of causality

4 Cause and Effect

The Nyaya Vargevika doctrine of cause and effect stands in immediate relation to that of inherence which as appears from Kanada was first conceived as the relation between these two. But the development of the examination of cause did not adhere strictly to this

¹ 11 2 13 17 Cf Aroka Aveyer urakerone SBNT* pp 8 86 84 uk, e 8 tra v 99 100 with commentary CN p 94, PSPM pp 89 100 who regards it as many and both eternal and noneternal perceptible and impercentible

dictum the concept includes much beside the cause, which in the strict sense of the word is the inherent cruse, though that always occupies an essential place in the theory

In the hard form 1 of the doctrine the cause is that which always precedes the effect is necessary to it. and that not merely as an accessory cause (aunatha sullha). The precise nature of accessory causes is not. however, very explicitly stated, they include matters which, though in relation of inherence with the cause proper, are not themselves directly instrumental in causation like the colour of the threads in the production of a rug, those events prior to the cause which only remotely affect it, such as the father of the potter in relation to the pot, and generally all influences which, though in relation with the cause, are neither necessary not sufficient to produce it, such as the ass who carries the clay for the fabrication of the plot Vicy matha subdivides the first two classes into two each, but the last class clearly covers the whole field, and its vagueness anordo a

Causes are divided into three kinds. The first is the inherent cause, in which case the relationship is that of inseparable connexion. It is illustrated by the relation of the threads to the lug, as opposed to the shuttle which aids in the production of the fabric, and the same relation exists between all products and the substances of which they are made. It holds also between sub-

¹ TA, p 4, TB, p 11, TK, p 7, TSD, \$38 BP 16, 13 22, of KKK u 158 73 Raghunatia (PfN, pp 71-4) claums for causation the rank of a category

² The whole doctrine is implied in VS x 2 1-7, i 1 16 n I 2, where the causal character of the substances, qualities, and motion is given. PBi. pp 21, 24, 98 102 SP, 465, 179, TA, p. 4, TB, pp 15 25, TK, p. 8, TSD, 540, BP 17, 18, TR, 1p 152 4, 156, 157

stance and quality and substance and motion the rug is the inherent cause (samara n karana) of its colour and it is readily admitted that as the cause must precede the effect at the moment of its coming into being the ing must have no colour and since it can also have no dimension cannot be perceptible at all until these attri butes have come after an infinitesimal delay into being Secondly there is the non inherent cause (isan iava nhar a) which inheres in the same si bstratum with the effect or with the inherent cause. The first is the relation of the arrangement of the threads of a rug to the rug the arrangement or conjunction as a quality is inherent in the threads which are the inherent cause of the rug. The relation may secondly be indirect thus the colour of the threads of the rug stand in this relation to the colour of the rug the colour of the threads in heres in them they indere in the rug and the colour of the rug inheres in it. Thirdly the category of instru mental cause (nimitta kara a) is the receptacle for every sort of cause which cannot be brought under the two preceding heads including the agent in it again there may be drawn a distinction between special and general causes of which there are eight God his knowledge desire and action antecedent non-existence space and time ment and dement to which some adl absence of counteracting influence 1 But in this view of the third category it seems that the term cause is too widely applied and includes what is not necessary and better method is that followed by those who distinguish between numary (mukl va) and subordinate causes and

¹ Cf Att thye T8 pp. 207 208 The idea is applied if the case of percept on n NS i 1 2 as regards duration space time and etter as regards space and time see PBh p °5 Kir pp 38 89 VS v 1 °5 v 2 °6 Faddegon Far (*9igf m, p. °19

that of Annam Bhatta 1 who makes it the positive corre late of an anterior negation thus emphasizing the funda mental feature of the doctrine of causality in the Nyaya Vaicesika its denial that the effect always exists pre figured in the cause (a sat karya rad i) The doctrine is dready expressly insisted upon by kanada 2 without a cause there can be no effect not however without an effect no cause. Thus the doctrine of the school is that the cause always precedes the effect and the latter has no existence until it is brought into being. It has therefore some affinity with the Buldhist doctrine of the generation of being out of not being and it stands in absolute contradiction with the Samkhva assertion of the pre existence of the effect in the cause (sat kar ja of the value while holding that the effect was ultimately illusory. The Sainkhya lays stress on such arguments as the fact that in experience we see that there can be no creation of anything new the blue colour can never be converted into red the sesamini can be traced in the oil pressed from it, no effect is ever produced from any cause as would be possible on the Ayaya view but only from a specific cause of the suggestion is made that the cause possesses some power to produce the effect is this power connected with the effect? If so that is as much as to say the effect is prefigured in the cause if not there is the fatal difficulty as to the concurrence of definite effects with definite causes Finally as cause and effect are correlative ideas it is impossible to assert the existence of cause without its producing at once the effect The \vava reply is not uningenious the same

^{*} Deus en Vedanta en xx xx Cankara on BS 11. 1 14 0.

atoms make a pot or a saucer, on the identity theory the atoms pot, and saucer should all be the same which is not the case, an argument which the Ved int a meets by denying that things which are equal to the same thing are equal to one another. The shape of a pot again is not to be traced in its constituents and must be new Or if it is argued that the effect is latent but is made manifest then the manifestation itself being an effect, must have existed previously and so on indefinitely This argument can only be met by resort to the Vedanta theory that the whole manifested work is but the play of illusion and that one real alone remains. Hence Cankara's enslaught on the conception of inherence in its relation to causality escapes the difficulty of the Samkhya, which is compelled to ignore obvious facts by its insistence on the prefiguration of the real cause in a real effect But it is difficult to hail Cinkara as the predecessor of Kant 1 in his treatment of cause, when it is remembered that it is not this category merely but everything in the universe which is projected by the cosmic power of illusion

Apurt, however, from the fundamental problem of causation, there are obvious weaknesses in the doctinus of the Nigaa Vaigeeska. The ignoring of the agent is obvious and inexplicable for on their own view the agency of God is an important feature in creation and their doctrine of causality and non-vistance adipts itself admirably to permit of the proof of the creative power of God. The distinction between inherent and non inherent causes is untenable and inaccurate as the latter are in indirect relations of inherence while non inherent applies properly to instrumental causes. Nor is there any recognition of the conjunction of inherent

¹ Athalye, To , 1 205, contra, Deussen, Alijem. Good, L un 6.5.

eausses to produce a result despite the obvious problem presented in the familiar case of the pot in view of the presence of water in its materials and the argument against the Samkhy a theory which can be deduced thence is palpable. Needless to say, the most complex case of chemical compounds is ignored as are also the plain facts of the same effect produced by apparently different causes on the intermixture of effects. In no case does there more clearly appear the discrete of the system from practical scientific experience.

5 Non existence

In Kanada non existence, as we have seen does not appear as a category. His own doctrine misinterpreted by his commentators, amounts to this? Absolute non existence or negation is not a predicable at all, ante codent non existence, the condition of the cause que effect before it produces its result subsequent non existence, the condition of the effect when resolved into its elements, and mutual non existence the relation between things possessing identity of their own all have definite relations to resulty and do not form a special category. In the Nyaya' we find the germ of the ident of not being as something knowable and existent in the

 $^{^1}$ Vo 1 1 23 applies only to union of similar substances—combination of motions is denied 1 1 94 and causation of motion by motion

There is no trace of a recognition of elemical compounds or an organic whole as suggested by Chattery. If not Red im pp. 27, 56 whose authorities (NVT, p. 289, K.r., pp. 116-115) do not bear out so contention in any way. The refusal (N. y. 2-14) to allow out a combination of heterogeneous atoms to form the body aboves the real view of the sobols. Contrast Seal Peature Science, pp. 284-219.

⁴ NS is 2 12 with NBh and NV NBh p 2 N pp 10 83 NVT, p 23, above, chap is § 2

same way as being the knowledge being based in the Bhasya on inference but later ascribed to direct per ception in a peculiar form. Two forms of negation are recognized in the Sutra explained in the Bhasya as non existence prior to being brought into being and non existence after the destruction of the form of the thing brought into existence Harmony between the Vnicenka and Nyava was established before Jayanta and Vacas pati the latter of whom gives the classical division of negation as based on ilentity of correlation the latter comprising the three varieties of antecedent consequent and absolute non existence 2 The older Nyaya tradition however retained the Sutra standpoint by explaining that absolute non existence was merely antecedent non existence without a determining limit and negation of identity was similarly antecedent negation conceived of as in relation to a different thing which it never becomes Antecedent negation explains also negation of requirement and of capacity not previously existing while subsequent negation disposes of negation of prior capacity if these further divisions of negation are adonte l

The syncretist school while adopting non existence as a separate category always recognize its correlation to being, negation is knowledge dependent on knowledge of the positive counterpart (pratigogia) an idea familiar in rhetoric where in Thy face is like the moon thultter is the counterpart of the relationship of similarity abiding in the face. The pot is the counterpart of its

¹ NL pp 1°6 8 NVT p 30 Kir p 6 Laks p 13 NK 1 °30 NM pp.53-61

anyon sibi lea p da prad ransa a y ni -abh ra relati n (san banika) covers ini erence and communication

^{*} SP 44 10 53 73 11° L. T4 p. L. TB., p. 83 TK pp. 1 21 TSD 44 0 80 RP 1° 13 TP p 163 \SM pp 34 53

antecedent or subsequent non existence, it is an effect of the one and a cause of the other, in absolute nega-tion the counterpart is determined by a relation of negation with its substrate e.g. the ground on which the pot once seen is no longer present. From absolute negation mutual negation differs by resting on denial of identity not of relation. Beyond these four classes some Vaicesikas went by distinguishing from absolute nega-tion temporary negation (samayil abhāva) as in the proposition The pot is not on the ground' while Annum Bhatta refutes this subdivision with the argu Annum Shatta retutes this subdivision with the argu-ment that the non existence of the pot on the ground is permanent and only temporarily obscured by being covered up with the pot when it is present. Yet nother teacher Sundanda introduced the conception of the non-evistence on the ground of a pot because there is there instead a cloth but this futility did not win much support

Needless to say this conception of non-existence as a reality received no support from the other schools and the Mimaha in particular was ready to show that the position of the Nyaya Vaiçesia modeled them in a fatal regressus aid infinitum inasmuch as if non-existence were a reality then the negation of non existence must were a reality then the negation of non-estiment inter-ble another reality and so on indefinitely. To meet this objection the weight of which was of course decisive for the school the ancient Nyaya developed the view that the negation of a negation was equivalent to the positive.

The modern school however repudiate this view a the first negation cannot they hold ever be equivalent to a posi-tive but they admit that the negation of the negation of the first negation is equivalent to the first negation?

¹ NKoca pp 7 70, Atlalye TS pp 31 32 TC 1 53 5 5
Padartharatnamali pp 24 75
2 CL TSD, 4 80 with Atlalye a note Ragl unatla PTN pp 55 7

It is more interesting to note the sympathy which exists between the doctrine of the school and the Buddhist view of the momentariness of existence, which finds expression in the doctrine of causation also Cognition in the Buddhist doctrine of momentariness developed in the Sautrantika school 1 persists for a moment only; it is non-existent, existent, and gone. and in harmony with this we have the antecedent nonexistence, existence, and subsequent non-existence of cognitions in the Nyava Vaicesika, where, however, with characteristic adaptation to meet the view of the school 2 the length of existence of the cognition is conceived in three aspects, that of its coming into being that of its disappearance, and the intervening space Sound also is subjected to the same treatment possibly already in Kanada, and certainly in the work of Pracastapada

SSS 11. 3 6, 7, SDS, p 10, NB, p. 108, NBh v 1 24, NVT, pp 105, 380, NK, pp 73, 74, Vadh Vrii, pp 116, n 1, 281, n 1, 545, n 6

³ The origin of this doctrine can be seen in the three stages of a sanderia, confection, in Alig Akaya, 152, Kathar 161, Modh 1rth, p. 115, as strada, regne, shapesquidities, the Valbhankas have four; et., yala, yard, shah, ond,nia (bid p 515) in the Abhahanna, an occurring in Kanay the Abhaharnakayayasha applies the division to the series, not the keone. Cf the Yoga view of time as a series of Annac, Yis in Se with comments.

^{&#}x27;p 25; Kir, p 35 Of for cognition, NS all 2 1st To say that cognitions endure for three moments (Athalye, TS, p 167 Such, tr, p, 315, whatt, shah, wend as the decrine of the later text; e.g. TE, p 19, TE, pp 35, 84, but it is a mere antiter of terminology as the decrine is an effect in PBh, p 257 Battheearst form of the doctrine is not proved for either Sutr. On the Asson of PTN, p 53-61, facultransamonials, p 55 Contrast the view of duration as real, Junes, Papis, i form Pringle Puttison The Idea of Ond, pp 350f

CHAPTER VIII

THE PHILOSOPHY OF NATURE

1 The Atomic Theory

THE doctrine of the existence of real things in the universe had to face when it was first expounded in definitive form the presence of the powerful influence of the doctrine of vacuity (cunya vāda) or philosophic nihilism of the Madhyamika school of Buddhism which owes its establishment to Nagariuna.1 The essential principle of this school, whose views may be compared usefully with the dialectic of Zeno, asserted that on analysis our ideas present such inconsistencies and meompatibilities that there can be nothing real under hing them, they deny therefore not only the true existence of external reality, but they do not admit that thought itself is real, so incoherent and contradictory is it Thus against the claim of realism that there is both truth and reality, it is aroued that on investigation the true essence of things is not revealed we form the notion of a cloth, but when we examine it we find only a mass of threads, whence it follows that our notion was an error Again it is urged, just as the objects seen in a dream magic, futa Morgana, and mirage, are not real though we believe in them, so also neither is our knowledge nor its object real 2 The response of the Nuava

¹ Madhyan ha S tra, 1 ff , lv S , xm 2,8 of SDS , pc 11 SSS 11 1 . above, ch 11. 42

² Madh S. vii 34, Vett., pp 178,445 of Gaudapada, ii 5ff

Sitral as expounded by Vatsyayana is effective. If there is proof it is urged that nothing exists then this proof sublates its own existence. If there is no proof how can it be established that nothing exists? If it is to be assumed without proof then the opposite contention 19 at least as legitimate The fact of our ability to analyse our notions confutes the belief in their unicality and that of their objects at cannot be expected that we should have a separate perception of the whole and its parts or of the cause and its effect. As regards the argument from the dream state it is pointed out that no argument is adduced by the minists to show that the knowledge we have is really comparable to that of a dream in place of that of our waking experience nor again is it shown that our dream experience is of nonexisting things To these retorts Vatsvavana adds the telling are ument that the only ground on which it can be taken that things seen in a dream do not really exist is that they are seen no more in the waking state which implies that our waking experience is real

Probably at a time after the production of Vatsy ay an a Bhaspa the need was felt in the school to combat the further development of the inhil sm of Vagaryina which in the I rands of Asanga* and Vasubandlu led to the doctine of idealism (vy a a vada) which denied absolutely the reality of external things and accepted as shouly reality our ideas or mental acts including perception in their view therefore external things were merely products in our consciousness due to ideas

¹ y ° 26-37 Cf Caukara on BS 1 2 18-° Kumar la CV pp. 148-8° PSPM pp. °4 °5 83 SS 1 48 ff 2 Mohayanaga trakasku a i 18 x 53 ff ef SDS p 1° SSS i 2

pp. 183-5 Form pp. 5 - 0 5 5 1 4 5 1 1 2 5 5 1 2 2 Mohayanar twolands a 1 18 x 5 5 ff of SDS p 1 2 SSS 1 2 Stcherbatsho Muscon, va 144 ff Gaudapada n h s att tude to the Va cellas shows both Madlyam ha and V Manarada nfi ence see JRUS 1210 pp. 129-40 JAOS xxxi of 4.

existing independently of objects a modified form of which doctrine we have already seen in Dignaga. It was therefore found necessary to renterpret the Sutra' to make it cover a refutation of the demail by the new school of realism and this was the more easy in that such a refutation was necessarily in part implicit in the refutation of a minlism which denied reality to thought and external being alike

The essence of the argument against pure idealism is therefore that it contradicts the nature of our dis tinction between waking and fream experience believe that dream objects have no existence apart from our experience simply because when awake we do not perceive them as objects and this is explicable only on the theory that an external reality does exist But if there were not a sensible world of experience the dreams themselves could not exist for ultimately dreams are based on a real experience. Moreover only on such a hypothesis as that of an external reality can ue ex plain the distinction between truth and error as seen in hallucination or a mistake and the conviction of such a reality is also forced upon us ly the fact that we do not as should be the case if the objects are only our ideas have them continuously and at our pleasure before us as is the case with our own ideas while our per ceptions depend on things beyond our power to affect 2

It remains therefore to discover what is the ultimate

It remains therefore to discover what is the ultimate reality which is thus necessary to explain our experience. Things in the universe are made up of parts which are combined into wholes by the relation of inherence and this conception series to refute the objections directed against the conception of whole and part on the groun?

^{1 1}v 2 20 30 as taken by Vacaspat The render ng of iv 2 °G in SBH viii 133 is clearly erroneous buddhyd being instruct abl 1 °Cf Cankara on BS in 2 28 Kumarila CV pp 119 48

that the whole cannot reside in the parts, since it is greater than any one or more of them spart, nor can the parts reside in the whole since they are less than it, objections founded on a false application of spatial conceptions outside their sphere! Now the process of division of a whole can be carried beyond the limits of perception, but not indefinitely there must on pain of a regressive ad infinitum, which is inconcervable (anawsthanupapatti) be a point at which division stops and there remains a permanent substance which is never destroyed and which cannot be subdivided. To this assumption there is obvious an immediate objection in shape of the existence of the all pervading ether which therefore must compel the atom to have parts. The reply is that the conception of within or without thus implied is inapplicable to an eternal thing which is not a product, the omnipresence of other is admitted, but it neither repels nor is obstructed, and therefore in no wise implies the existence of parts in the atom for it has no form and is intangible. There are the further objections that anything which has magnitude must have form and therefore parts and that the possibility of conjunction with another atom is only possible, if the atom has parts, but these are rejected without detailed refutation on the strength of the overwhelming weight of the argument that there must be an end to divisibility Nor does the Vargenku Satra 2 add any further argument of weight, it seems to concerve the grounds for accepting stoms to be the fact that there must be something uncaused, and that the existence of non-eternal things implies the existence of the opposed conception of eternal things, which can be found only in the atoms, though

^{&#}x27; NS. iv 2 4 ff Cf. Canhara on BS. ii. 1 26 31

*vil 1 9 10 PBh., p 25, TB, pp. 73 74 TA, pp. 3 5 TSD

10. BP 26

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these save in an aggregate cannot be air object of perception. Aggregates differ by reason of the number of the atoms which produce them and thus create magnitude (malattiu) which is different from minute ness (anutter). In the atoms which are infinite in number we can distinguish classes according to their possession of qualities air atoms possessing tangibility, fire that and colour water these and savour and earth these and odour.

The conception thus presented is simple and intelligible it is possibly a development from the earlier position which is represented in the Jain philosophy and which regards matter understood as eternal and undifferentiated as the product of atoms each of which occupies a point in space while they are all equal and not differentiated according to the four elements which are later evolved by a process of differentiation ! In the Sutra as in the form of atomism found in Buddhism 2 the atoms are definitely brought into relation with the four elements by assigning to them specific qualities and possibly also the element of peculiarity (vicesof) which enables them to remain distinct despite what otherwise must be their entire identity. In the hands of Praçastapada however, there appears already a characteristic development of the theory which renders at far less simple and easy The magnitude of an aggre gate which seemingly was in the view of Kanada due to the number of the atoms constituting it is held to arise not from these causes alone lut also from the magnitude of the constituent parts and their aggregation?

¹ Above Pt I cl. § 1 * 6f Çankara on BS, 1: 2, 18, SSS i 4, 13, 15, SDS, p. 13, NV

^{*} makastrapracayan being supplied in VS vi 1 9 which refers to number of parts only Cf Kir pp 50 3 63 8

these terms being read into Kanada's aphorism wholly without warrant, and with a remarkable tendency to ignore the plain fact that the two new factors are on the ultimate analysis, as they are explained, nothing more than the results of the number of parts. On the other hand below the stage at which magnitude is reached, number alone seems to act as a factor, a dis tinction wholly indefensible in theory, since if the atoms are really the source of all products there can be nothing sive number to account for the diverse sizes of things The impulse to this view may have been given by the aphorism of Kanada which makes the minute the ieverse of the thing which has magnitude and which seems to have been interpreted to set an impassable gulf between them and to require that magnitude should be produced from magnitude only It this were correct it would follow that combination of ininute with minute would produce still more minute results but this con clusion would obviously have been contradicted by the fact that the atom was the many own dramble and therefore the rule that number gave increase in size was dmitted Two primary atoms produce the binary (dv) anula) which still is minute (anu) for it is without magnifude in the technical sense three binaries how wer, produce the triad (triangla) which is later asserted to be the mote in the sunbeam and equated with the truti, the phrase used by the Nyaya Sutra 1 in expressing the furthest length of division and which there must be deemed to denote a dimension not too small for appre hension." Possibly 3 there may have also contributed to

 $^{^{1}}$ $_{1V}$ 2 17 The phrase, however is uncertain in sense it may mean only that there is an end to division NBh i c , of NV nn 233 ff

pp 233 ft = 238 ft =

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this result the fact that there was a division in things possessing magnitude between those which were eternal like space and those wheth were non-eternal the desire to emphasize this contrast also may have led to the setting up of the class of the eternal atom and the perishing binary, but the excrescence on the theory is palpable. The insistence on number, however, gives rise to an effective argument for the impossibility of infinite division, since, if this were possible, it would be necessary to admit the equality of the size of the largest mountain and the smallest heap on the ground of the equility of infinites. A further argument, which is probably late in origin deduces that there must be a definite limit to subdivision just as there is a definite

limit to extension in the sky 2

In Pragastapadas' appears also a clear statement of the mode in which the universe comes to rest, and is created again from time to time in an eternal cycle When a hundred years by the measure of Brahman, are at an end there comes the time for the ddivernee of the Brahman then existing. Then to secure rest for living beings wearned by their wanderings the Supreme Lord desires to realisable all creation, simultaneously with this desire there arises a cessation of the operations of the unseen tendence, adultat of all souls that are the causes of their bodies sense organs and gross cliented in Then out of the Lords desire, and from the conjunction of the souls and the material atoms there come about certain disruptions of the atoms constituting the bodies and sense organs. The combination of the atoms is thus destroyed and thus brings about the destruction of all things down to the atoms. There

¹ TSD, § 10, Kir, 1 51 NVT iv 2 17*
* SM on BP 37 of NV, p 251

² pp 48ff , Kir , pp 89 ff

ensues a successive discuption or reabsorption of the ultimate material substances—earth water, fire and air. one after the other Thereafter the atoms remain isolated and with them the selves permeated with the potencies of their past virtue and vices Then again, for the sake of the experience to be gained by hing beings there arises in the mind of the Supreme Lord a desire for creation and there are produced in the atoms of air certain actions or motions due to their conjunction under the influence of the unseen potential tendencies that begin to operate in all souls. These motions bring about the mutual contact of the air atoms and there appears through diad and triad &c finally the great air which exists vibrating in the sky from this springs the great reservon of water in which appear the great earth and the great fire By the thought of the Supreme Lord there is produced from cuth and fire atoms the cosmic egg in it the Lord pro-duces the worlds and the creator Brahman to whom he assigns the further work of creation Brahman then endowed with extreme degrees of knowledge dispassion and power recognizing the ripeness for fruition of the tendencies of hing beings creates his mind born sons the Prajapatis the Manus gods futhers and seers and from his mouth, arms thighs and feet the four cistes and all other hyme beings all having their knowledge and experience in harmony with their previous deeds and then endows them with knowledge virtue, dis passion, and powers in accord with their respective impressional potencies

As to the exact mode of the process of destruction a difference exists between the old and the modern schools! In the former view the process is from cause

¹ TSD pp 9 10 TB pp 71-3

to effect, the union of primary atoms in the binaries is broken, and with it the triads are destroyed and so on The modern view is intended to meet the criticism made by the Vedanta 1 which insists that the process of destruction must be the reverse of that of creation if the cause is destroyed before the effect, there must be a period when the effect remains in the absence of its parts It holds therefore that there is in every case one cause the dissolution of the union which is the nonintimate cause of the effect which permits the adoption of the view that the destruction of the universe proceeds from the final effect backwards to the dissolution of the union between the atoms The conception of cosmic destruction also appears in the later school in two forms in the one the intermediate dissolution (arantera ma laya) only tangible products are destroyed in a universal destruction (mahapralaya) all these things material and immaterial are dissolved in the atoms and the repetition

As before the Lord placed all in order 2. The whole theory is exposed to a very elaborate refutation by Cankara in his exposition of the Brahmi & Sūtra 2. The possibility of the beginning of motion in the state of dissolution (prologia) is denied it is their impossible to conceae human effort or impact as operative since ex hypotless they do not yet exist. If the unseen principle (adista) is deemed to be the source it must either inhere in the soul in which case it cannot affect the atoms or in the atoms in which case as untelligent it cannot set motion on foot. If again the soul is supposed to inhere in the atoms and the unseen

of creation is established by the authority of scripture

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¹ BS 1 3 14 with Cankara

² Mahdad dyana Upanusud y * For a mahdp alaya ef NVTP p SSi i 2 13 17 Cf SS 1 110 ff. w th commentary v 8 88 NV n. o2.

^{1. 0.}

principle to be combined with it there would be eternal activity, which contradicts the existence of the state of dissolution Again the unseen principle operates to secure reward and punishment for souls not to produce dissolution which is equally uncaused with the origin of the universe How also can two atoms combine? If m whole then, as there is complete interpenetration there is no increase of bulk and no production is possible, if in part, then the atom has parts just as it must have if soul internal organ and atoms are to combine Acam either the atoms must be ever active or ever mactive, or both or neither If ever active, dissolution is impossible if ever inactive creation is impossible they cannot be both as that is self-contradictory, if neither then activity and mactivity would require operative causes and these causes the unseen principle dc, being in permanent activity or if not permanent inactivity. The possibility of connexion (umile a) between the ether or the binary atoms is defined and the argument aram adduced that if an atom has form it must have parts The presence of qualities in the atoms suggests that they are not simple entities but compounds more over, the idea that one atom though of the same size as another, has more qualities is untenable yet it is i necessary part of the theory 1 for, if the atoms all had one quality, there would be no variety of qualities if they all had all there would be no single qualities. The whole conception of inherence is proved as we have seen to involve a regressus ad injunitum as deadly as the infinite regress objected to by the school while the idea of cause as distinct from the effect is strongly dis

¹ In NS 111 1 65 9 it is established by the argument that ca the and water are visible and therefore must contain color for if mix time sufficed why is air invisible? See ABb in 1 67

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approved It is of importance to note that in this effective criticism there is no reference to the conception—which Cankara knew—of the activity of the Lord as a source of motion of the atoms—the soul mentioned is that of the individual which in the dissolution is mactive and therefore cannot prove the cause of motion

The criticism of Cankara is of special value by reason of its date and authoritativeness for it shows that in his time the theory had assumed the form in which it appears in Praçastapada 1 though its theistic tinge was evidently not regarded as a necessary part of it. The history of the development of the system is the more important in that it serves to dispose of the suggestion that in the atoms we are to recognize not material things but real and self subsisting stimuli without any magnitude whatever and non spatial not unlike the qualitative atoms of the Heibartian school " This theory is supported on the assumption that the atoms being as supported on the assumption that the about only force points two the binary atom constitute a length and three lines thus make up a solid body with magin tude. It is sufficient to observe that the binary atom is not a primitive concept in the school and that thus the whole basis of the theory is removed. Nor are atoms absolutely without magnitude the minute is opposed to magnitude but in the same genus it is not true that the measures of the atoms being added cannot create any magnitude for in fact three triads consisting of binary atoms makes up a thing with magnitude the atoms are not non spatial a but devoid of parts and for the same reason not because they are non spatial, they

¹ Kumarıla tentatıvely accepts the theory of ÇV p 207 PSPM,

p 92 So the Yoga YS 1 40 1 J C Chatterji Hind: Realism, pp 19-34 149 53 164

NV p 522 Cantara on BS ii 2 12 the correct rendering is

is not suspected and that luminosity is regarded as a particular variety of colour 1

As we have seen, all the atoms possess the five general qualities of all substances and also the two of priority and posteriority. It has also the qualities of odour which is its special mark savour, colour, and touch or temperature, gravity, velocity and fluidity Water has the special quality viscidity, and the other qualities of earth save ofour Fire has the usual seven temperature colour fluidity, and velocity, while air has besides the seven only touch and velocity. The qualities are eternal in the atoms but transient in the products. The products again fall into three classes in each case body, the sense organ, and object which is a loosely used phrase intended to exclude the other two classes of which the first is plainly an object of sense, though the second while possessing the qualities of its substance possesses them in latent form The atoms themselves are never objects of normal sense they are only inferable by the process given above, the apparent inclusion of atoms in that category by Annam Bhatta must be attributed to madvertence. The qualities also of the atoms can be discerned only in aggregates There is an obvious diffi culty in the question of the relation of the further quali ties recomized by the texts with the primitive four attributed to the atoms in the theory of the atoms Pracastapada and the Sutra stan I close to the later view in their enumeration of qualities but while the addition of the seven qualities common to all matter is natural, it is less easy to account for the relation of the special qualities of gravity fluidity elasticity, and velocity, the

¹ Atlalye TS p 118 The reference of aurum heat, to touch is explicable, as touch includes the temperature sense

² Cf, however NV, p 233, where an early view to this effect appears.

last two of which are classed under the general head of impression (samskāra), the solution seems to rest in their being held to be intimately connected with the category of motion ¹

Thus already in the Vaicesika Sūtra 2 gravity 19 defined as the non inherent cause of the first movement of a falling body. The movement created by gravity produces velocity, which produces a second movement of which the non inherent cause is the first. Gravity is possessed by earth and water and is super sensible, and thus must be inferred Fluidity and its turn is the non inherent cause of the first movement in a thing which becomes fluid and it gives rise to velocity in the same manner as gravity. It is natural (samsiddhika) in objects which are liquid at a normal state of temperature but artificial (naimittika) in those which require heat to produce liquefaction as in the case of butter among objects derived from earth and of metal among objects connected with fire and it resides therefore in water earth and fire. Unlike gravity fluidity is assumed in the metals the gravity in them being attributed to portions of earth mingled with them. The obvious suggestion that in the same was the fluidity of the metals should be attributed to the water element in them is rebutted by the fact that in that case the fluidity of antificial the pattern for the delicer of bluew states

All qualties general and special are equally real, the former depending on peculiarities of their substratum; the latter different idiating substances, Nr., p.96. The attempt to distinguish permaner qualities revealed by touch from other qualities, found in the Daissee adjoint (Nillere, Poulds 19.2, 107 Rays Davids, Bodal Psych, p. 45) is philosophically unsuand of Bosanquet Lope? in 508 pringle Patting, The Loy of the pp. 186?

^{*15. + 1.7 19} PBh p. 203 SP 11 41 99 TB., p. 52 Th

p 19, To \$50, BP 153, 151 TP p 146. 4

**No 1 2 29, w 2 4 1 B1 pp 264 265 SP (\$45 100 TB n 2) TK n 19 TS, 4 31 BP 154-6 TR, p 146

further suggestion that the fluidity of metals can be traced to the fluidity of their earth portions is rejected because the fluidity of metals is indestructed by while that of earth is destructible by intense heat. No trace is to be seen of any recognition of the general similarity of gravity and fluidity, while the restriction of both to the production of the first movement has to be supple mented by assigning a new quality, yelocity, which then comes into operation. Velocity 1 is found in the four atomic substances and mind for there can be no mote a save in things of limited dimension, and, therefore these five make up the class of corporal substances (martadrawps) while together with ether the four atomic substances constitute the elemental substances (blatta drange) With sclocity is included under the generic term 'unpression' (semskare), the quality of elasticity " which is the power possessed by a thing of reverting to its normal condition after tension, it is declared to result in all the atomic substances. Lake velocity it results from motion, and it ends by the effect of the motion which it produces. The term 'impression' applied to these two has obviously been derived from the more primitive use of that word to refer to mental impression, which in the later classification forms the first of the divisions of the class impression, the analogo is obvious, since velocity and elusticity manifest the motion which creates them, and so in a sense survives as an impression in the substratum. The classification is suggestive of the late development of the conception, in fact in the list of qualities attributed to the various

^{&#}x27;NS | 1 29, w 1 17 PBh, pp 207 267, SP 45 47, 102, TB p 13, TB, pp. 80 86 TK., pp 19 20, TS, 4 75, BP 458-61, TR, p 146

^{*} Velocity on one view is a separate quality, of SDST 63 GSAI

substances elasticity is passed tacitly over when velocity is mentioned, and it may represent a still further advance on the primitive idea

Motion itself as a category is analysed into the five kinds of throwing up, throwing down, expansion, contraction and going which is intended to cover any other form of motion 1 Motion resides in substance only, and perishes with it, it is essentially evanescent, it operates by conjunction and disjunction in as much as it is the cause of the separation of an object from the place where it is which destroys the conjunction between the object and the place on which it resides, and leads to the formation of a new conjunction which terminates the motion Thus there can be no generation of motion by motion for, each motion requiring a disjunction after the first disjunction, there must be a conjunction to permit of fresh movement. It is for this reason that velocity is necessary to explain the subsequent movements of an arrow shot from a bow but the later doctrine that gravity operates through generating velocity is contrary to the view of Kanada, who distinguishes between the velocity (samskura) in an arrow discharged, and the gravity which produces its fall when there is no counter acting impulse or velocity. Action again is also due either to volution (prayatin) which involves contact with the self, or without volution as in the case of throwing a pestle into a mortar which is due to volution while its rebound is the result of commetion (sampona) which is otherwise described as unpulse or impact (nodana, abhighāla) The movements of the body in sleep are also without volution. The evaporation of water arises from the conjunction of the rays of the sun with air, and the condensation and dissolution of water

¹ VS, | 1 7 necessor | 11, 14, 20 2 21, 26 29-31 | | 1 21 *2 9 25 | v | | an | 2 and references above the vir \$2

are due to conjunction with air while fluidity causes the flowing of waters on the surface of the earth and gravity the fall of rain. Other forms of action however exist which cannot be reduced to the operation of volition or conjunction They comprise in Kanada a varietated list including the initial upward flaring of fire sideward blowing of wind and actions of atoms and mind the entry and egress from bodies by the self the assimila tion of food and drink the conjunction of other pro ducts apparently the production of the embryo, the cuculation of water in trees the occurrence of earth quakes and similar terrestrial disturbances, the attraction of the magnet and the motion of the sewel towards the thief All are accounted for, not by the action of the Lord in the Sutra but by the unseen principle which represents the fruits of previous deeds. But it is clear that there is no serious effort to consider the question of the mode in which effort of the unseen principle can affect matter so as to produce motion It is clear that if volition involves the activity of the atomic sized mind and therefore has some vague degree of mediation with the actual atoms, the unseen principle is conceived as operating directly both on the atoms and on mind

Apart from the qualities which are closely connected with motion and the general qualities of all material objects are the old four qualities to which must be added viscidity? which is apparently a development of fundity from which it is distinguished on the ground that its peculiar capacity of agglutination (pindliblard) is not resident in melted gold that is fluid. It resides in water only the viscidity of oil milk &c is due to due to

i VS v I 15 2 2 7 18 17 Candrskäntas effort (v 2 2) to exply n adre a as referring to unseen natural forces is unavailing 2 PBI v 266 SP 44 46 101 TB v 82 TK v 32 TS 4 32

BP 157 TR p 147 see VS i 1 2

the presence in them of water though no clear explanation is offered of the reason why oil inflames fire while water extinguishes it for the stock answer that it has more usefulty leaves the question un-olved

Of the traditional four qualities colour is that special quality which is cognized by the eye alone thus excluding substances like light qualities like number which are also perceived by touch, and reflected colour which does not reside directly in the object. The classification of colours is not attempted by Pracastapada or Cridhara and is late they are enumerated either as six-white l lue yellow red green and brown or with the addition of variegated (citig) as seven The addition of this last is due to the doctrine of the difference of the whole from its parts acceptance of this forbids us to admit that a carpet made up of pieces of different colour can be seen as having the colour of its parts which would manive the theory that the parts can be discriminated in the result a view which of course is contrary to the doctrine that the cause perishes in obtaining the effect The carpet must, therefore have no colour which would render it invisible or it must have as the school holds a special variety of colour styled variegated. But it is in earth only that colour can appear in all these shades in water it is transparent white alone in fire resplendent white Sayour 2 again 19 that specific quality perceptible only by the taste organ at is of six kinds-sweet sour saline pungent astringent and bitter earth has all these varieties water is sweet only the dissolution in it of earthy matter accounting for its sour or salt taste

^{1 \}S v1 1 1 N FBb p 104 SP \$5 S TB., p 3 TK.
p 4 T3 5 19 BP 100 101 TR. p 14"
1 VS Le. PBb. p 105 TB. p "9 SP \$5 S, 84 TK p 4
TS \$20 BP 101 10" TR. p 14"

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Odour 1 is the specific quality whose characteristic is perceptibility by the organ of smell alone, it is fragrant or the reverse, and resides in earth alone Touch (sparca) is the specific quality whose characteristic is perceptibility by the skin only, it is cold in water, hot in fire, and temperate in earth and air, and therefore is really the temperature sense rather than touch in the wider connotation or in its specific sense. Another view. however, suggests the addition of a variegated sensation of touch analogous to the variegated colour in sight, and this accords better with the wider view which is not accepted however by the school and in which touch is extended to include such qualities as roughness hardness, smoothness softness 3 On vet another view smoothness and hardness are ranked as separate qualities apart from touch, but this is rejected by Annam Bhatta who refers these qualities to degrees of conjunction

It would appear natural to assume that all these four qualities are eternal in the atoms and non-eternal in products, since they admittedly rest in the atoms. But by a peculiar doctrine, the principle is laid down that in earth even in the atoms the qualities are all non eternal and are produced by fire, although as regards the atoms this is plainly controlledory. The truth of the theory, so far as it has ability, must rest on the fact that the qualities of earth can be chanced by the

^{&#}x27;NS, Ic, PBh Ic, SP, \$4 24 85 TK, Lc TS, \$21 BP 102 103. The assignment of one quality only to each atom is rejected in NS iii 1 64 9

¹⁸ tc, PB, p 10c SP 44 2, 86, TB p, 79 TK p 4 TS 52, Bl 103 104, TR, p 142 NBb in 1 56, r NT p 150
Athalys, 78, p 156 cfl 10d r Jane p 164 Raphustha (FT p 25 26) lold 11st touch colour, and flavour a here only to earth of substance

⁴ PRh, pp. 106, 10 Th pp 4 5 To 423 BP 106 106, TR, pp 155 156, NS4ra pp 11, 131, 132 NSM, pp 134 5 M, p. 433

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VS 1c PBh 1c 9P 492485 TK 1c TS 474 BP 100 103 The san anment of one quality only to each aton is rejected in AS i 1 64 9

[&]quot;NE 1c PRh p 100 SP \$12 86 TB p. 7° TK p 4 TS \$1° DF 103 101 TR p 142 MBl | 1 1 55 5 MY p 140 3 Albalye TS p 156 ef H 4 Postem p 161 Raglu atla (PTN pp 3a 36) loids tiat to 1 cdo r and flavo radhere only to parts of substance

⁴ PBh pp. 106, 10 Th pp 4 5 TS 4 27 BP 105 106 TR pp 155 156 NS6rs pp 11 131 182 NSM pp 154 ff NM p 438

application of heat, while in the view of the school water, air, and fire are not so affected when water or air is heated, the result is due to the presence in them of fire elements not to change of their fundamental qualities But the mode of operation of the heating process is the source of one of the profound differences process is the source of one of the profound differences between the Vaicewika and the Njaya in their later developments. When the black pot is burned, the Vaicewika hold, the pot is destroyed its binaries even being dissolved, the action of fire produces in the individual atoms a red colour and then joins the atoms to form a new compound which ultimately results in the new red not If this were not so there would not be the possibility of baking the internal atoms of the pot and the reason why we cannot see the process of dissolution and reassembling is its extreme rapidity the whole occupying a time variously put at five nine ten, or occupying a time variously put at live fine ten, of eleven moments. This view of atom baking (pilu paka) which gives the Vaicesika school a nickname is clearly incompatible with original colour even in the atoms The Nyaya view is the sensible one that the pot remains identical as it seems to do, and as is shown by the fact that pots above it do not fall down while the difficulty of the penetration of heat is answered by the common of the penetration of new is answered by the common instance of the boiling of water in a pot. This view of pot. baking (puthawa putha) is not inconsistent with original odour in the atoms.

All these four qualities are perceptible only under certain conditions as we have seen and while aggregates of earth water, and fire are directly perceptible an according to the older view of the schools is inferable according to the older view of the schools is interable only though the modern Nyaya holds it to be perceived by touch disagreeing with the view that perception implies manifest colour. The inference rests on the temperature of air as neither hot nor cold which p 2

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differentiates it from fire or water, while lack of colour negatives its being earth. Nor is it all pervading like the other four substances, and mind is excluded by its atomic size which would prevent any quality in it being known. Hence we infer a distinct substance, air!

Of the products of atoms the sense organs, the tip of the tongue the extremity of the nose, that of the pupil of the eye, and the epidermis, composed of atoms of water earth fire and air respectively, are imperceptible as a condition of their functioning, they all act by contact 2 There are bodies 3 of earth fire water and air in this world and in those of the deities of fire water and air respectively, an adaptation to popular mythology of the more primitive hylozoism of Jainism which ascribes souls to the minute particles of the elements Body is the seat of the enjoyment of pleasure and pain by the self, it is a final compound as opposed to a compound which is part of a greater whole and it possesses motion The Vedanta view of the human body as composed of three or five elements and Prabhakara's meterence for four are rejected, bodies in this world are of earth only, either womb born like viviparous and oviparous animals or not so born, including on one view plants 4 as well as meets and such sages as acquire ly their merit bodies without physical birth

¹ PBl , p 4° Kir pp 82 6 NBh pp. 155 156 NV, p 71 TSD p 9 SM on BP 42, PSPM p "9 SS v 59 allows perception to Mindrid according to NNM, p 28 Regionalith PTA, pp 41 blove, ch u § 2, ch vu § 2, NNM, pp 59 60 The Simkly adverse the orans from eccors. SS. 1.61

³ VS iv 21 3 PBh p 27 Klr pp 56 ff Laka, pp 1 ff, SP 44 102-4, TB, pp 65 7, TK p 3 TSD 4 10 TR, p 121, AS 10 1 29 Cf SS i 1 17 19

⁴ Plants are denied bodies by PBh, p 28, Th, p 2 Padditharat namilid p 21

^{*} VS 17 2 5-10

As objects 1 (cisava) other than bodies earth annears as the whole of morgime nature water as the sea rivers hall &c. Fire products are terrestrial the fuel being earthy in character celestial such as lightning gastric the fire of digestion and mineral. Gold cannot be cuth because it iemains fluid under extreme heat nor water for its fluidity is artificial nor air because it has colour It must therefore be fire earth particles accounting for its absence of light and leat Another division rests on the decree of manifestation of colour and temperature both are fully present in the rays of the sun colour in the moon beams temperature in a red hot potsherd and neither in the lustre of the eye Aerial products include wind and in the Nyaya view the vital air (p a t) which the Vaicesika view illogically makes a separate division beside boly sense and object It covers the five fra a, apa u sai a t ulant maig noted in the Upanisads and in the Vedanta but made of little account by the other chools One doctume assigns the five in order to the lungs rectum navel throat and the body generally

3 Etle and Sound

Ether ' has sound as its specific quality and is the inherent cause of sound. The two stand in a unique relation the reference of sound to etler is established

^{39 44 8}P \$4114 2 1-5 NS 1 84 PBb pp. 7 \$, 35 56, 38 39 44 8P \$41114 1 7 Kr pp. 44 88 TB pp 99 71 Th pl 1 TS \$410-18 BP 35-44 TR pp. 134 One M makes gold a sep rate substance PSPM p 94 7 VSU 1 3 VSU 7 8

² Cf Oltramare 1 80 9 Deussen Algem Gesc I 1 348-50
Vedenta ch xxv 1 he th Sa nihya System, p 80

^{*}PBb pi 58 09 SP \$115 8 TB pp 4 6 TK p 3 TS \$11 BP 44 1K p 3 TS

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by a process of exhaustion which establishes that sound is not connected with any of the four atomic substances. But as a quality it must inhere in some substance and experience shows it is not the self. It is necessary therefore to infer a substance ether (a/aca) to be the substratum of sound The Samkhya argument that ether serves as the place of the coming in and going out of products presumably as medium for the movement of sensible things is decisively rejected by the Vaicesika Sutra 1 and the argument for its existence both there und in the Nyaya is based on its relation to sound alone It is one motionless and oumpresent the Nyaya' ex pressly aroung that this is not contrary to the existence of atoms as the ether is unrepelled and does not obstruct It is eternal and possesses the qualities also of number as a unity, and dimension as ommurescut of indiiduality conjunction and disjunction These are munifested in the propagation of sound As the atoms constitute the sense organs for the apprehension of the qualities which are present in atomic products so other provides the sense organ for the apprehension of sound The ether enclosed in the cavity of the car in contact with the ether without affords the organ but it differs from other sense organs in that it possesses its quality sound in normal not in latent form

Sound is divided into articulate and marticulate according to its character and according to its mode of

n 1 20-31 NV n 1 7, the effort (Cardraka sta on is 1 '0 Clatters: Hada Real s at pp. 165 166) to controvert the clear sense of the Stirs is needless. Gar gadham a readin, of it I was clearly wron, and PB Lc; K, p oo Kr p 85 only refer to ether as all pervading One Mimihas we vn akes sound a substance PSPM p 91 ther is denied by Rachunstha, PT > pp 8 10 Cf Cankara is 2 26 to 2 21, 22 38, vii 1 22, iv 1 6.

^{*} NS 11 1 "4 75 For the Jain Samkl ya ni l Mi 1 ausa view acc (V pi 4°0 ff NV, 11 29 ff Padar0 arabamélis p 6

production into that produced by conjunction as when a drum is struck by the hand, that produced by dis junction, as when a reed is split and that due to sound The last variety is requisite to account for the hearing by us of sound The organ of hearing is the ether in the cavity of the ear, it cannot without loss of identity or out to its object and sound therefore must be propa gated from its oursual source in a series of sounds in a manner likened either to wave motion (medicina) ganuaga) or to the filaments of the Kadamba which shoot out in all directions from the plant. When a drum is beaten by the hand the inherent cause of the sound produced is the ether, the non inherent cause is the conjunction of the drum and the ether, the instrumental cause the comunction of the hand and the drum When a reed is split the separation of the ether and the puts of the need is the non-inherent, the separation of the parts the instrumental cause. The sound heard and those intervening between the first and last have the sound as the non-inherent and the wind as the instru mental cause 3 On the destruction of sound views differ 4. Vatsyayana attributes it to contact between sound and an obstructing substance a view which conflicts with the Vaiçesika tenet that a quality like sound cannot have another quality like conjunction, Vacaspati, therefore, makes the contact one between ether and an obstacle and Cridhara one between air as the instrumental cause and the obstacle. A later doctrine holds that the penultimate and the ultimate sounds mutually destroy each other but this is rejected by

¹ VSV n 2 37, Ç\ , pp 424, 425 2 VV, p 289, \SV &c. 2 VS n 2 31, PBh, pp -87, 288, SF 43, 49, 105, T\ , p 13 TB 1p 82-5, Th., p 13, 18 4 33 BF 164 7 V \text{Rh n 2 84, \NT sat LVTF, sat & Mh, p -59, TB F 84

Acçava Migra on the sound ground that they cannot be contemporaneous at the last and the destruction is therefore attributed to the destruction of the penultimate obviously an unconvincing result

These speculations which are stoutly maintained against the Samkhya view that the organ goes to the sound or the Jam that sound travels bodily to the organ or the Mimansa which holds that air vibrations affecting the air in the ear mainfest the eternal sound are not supported by any experimental evidence a striking proof of the a prior character of the specu lations of either school They stand however in essential relation to the doctrine of the momentary existence 1 of certain qualities and of motion which as has been seen the schools adapt from Buddhism the new form of the doctrine the lack of connexion between the moments is removed by the view that each sound comes into being in one moment exists in the next during which period the second sound comes into being and is destroyed in the third moment a con ception which renders it possible to conceive of a real series of sounds and applied to the qualities of the self and motion renders continuity effectively possible.

4 Time and Space

Time 4 is defined in the syncretist school as either the cause of our use of temporal expressions or of our know ledge of the ideas of priority and posteriority simultaneity and non-simultaneity soon and late 6 4 6 to one in number omnipresent in dimension individual in character and possesses the qualities of conjunction and

Λbc cl v § 5 * PBh p₁ 63 61 161ff SP §§16 9 TA. p 5 TB pp ~6. 7 TK. p 3 1 S § 15 Bl 45 46 Kr pp. 114 °1 TR pp 138 1°9 KhK i 179 8b Raglunātha (PT\]; 1 3) refers both to God

disjunction. The past of an individual is the time characterized by its destruction the future that characterized by its precedent non existence the present is the time whose future existence is destroyed and whose own destruction is about to come

In the Ayay & Satra 1 the question of the existence of the present time is discussed in answer to the objection that when an object talls we know only the time through which it has fallen and the time through which it still will fall. The reply is that without a present there can be no perception and no knowledge, and past and future would have no meaning or existence. In the Varcesika Satra whence as usual the syncretists borrow then definitions there is further the pregnant doctrine that time is a cause for transient things in which it exists but not for eternal things in which it is not found this is a cle u recognition of the fact that the eternal substances do not exist in time while then qualities and motions have only existence there with ill the products. But the term cause must not be under stood in the sense that the \aicesika adopted the popular view that time was a great cosmic power which caused movement of things this is wholly contradictory to the view of the Sutra which nevel attributes the origin of motion to time as well as to the harmonious tradition of the school Time is a cause only in the loose sense of that term which is affected in the school namely as one of the many conditions which are necessary to the existence of a thing, it belongs to the category of general instrumental cause as opposed either to the

¹ n 1 39 43 NBb pp. 87 90 NV pp 55 8 NM p 13b n 6 9 v 2 % vn 1 25 % 2%

^{*} Clattern Hnd : Rausm pp 54 8 167, cont a M Walleser E dd/

PBh, p. 20 Kir p. 58 shove th vi \$4

specific instrumental cause (karana) or the inherent or non inherent causes

The nature of the conjunction which results in the conceptions of priority and posteriority is made clear by the stock example of the school If we say, 'Here now is a jar' we operate with a conjunction of a special character, that of the sun and the jar, this conjunction is not like that of material objects or their parts, and it is due to some reality which must be inferred and is inferred as time. So again, if we make a youth our starting-point the cognition of priority is produced in the case of an old man whose birth precedes that of the youth by many revolutions of the sun! These motions of the sun are the conditions which mark the divisions of time, such as moments months, and days. It is these conditions which render time apparently manifold instead of one as it really is, and help to create the impression held by some of the Nyaya school that time was, as claimed by the Buddhists, merely a series of moments a view, which as we have seen the Nyayr and Vaiçeuka repudiated as a general principle, but adapted with modifications in their theory of the character of all non eternal existence in the shape of the theory that every quality and action lasts for three moments only There remains one obvious difficulty in recording time itself as cternal when its presence in eternal substances is denied But in both cases the term 'eternal' denotes that which has no cause save itself and really exists and which in the temporal terms which we cannot avoid in use can

The process is a conjunction (mujus it) through inherence of the toton in the aim which is conjuned with what is conjuned, with youth, Kir p. 11o, 18U is 2 6, N. p. 34 negates this said (g 85) the scholly conditions as deficient to give inherence of time. The number of conjunctions with parts of space and time is given as the basis of revenitive and distance. This, 142, 19th p. 164, N. N., 18

only be described as eternal unless we frame the concept —though it can have no concrete meaning for us—of that which is not in time at all

Time therefore is regarded as a fundamental reality which is the basis of our time knowledge with which all transient existence is bound up. Thus time is absolutely a priori for the school as much as for kant but as consistent reshists they do not ascribe time to the product of mental activity in any form but hold that it imposes its nature on mind.

Space 1 Kanada tells us is that which gives rise in respect to two coexisting objects of the recognition that one is distant from the other in more technical language it is the proximate instrumental cause of our use of terms such as or of our conceptions of far and near according as we view the matter from the point of view of our speech or of the thoughts which it embodies Like air space is a substance which is independent and ternal in the sense in which all substances possess that characteristic like existence it is one and possesses individuality Like time it is all pervading and possesses conjunction and disjunction and its multiplicity is also due not to its own nature but to the divergence of effects Our conception of direction as east is derived from the conjunction of the sun as past future and present and similarly with other directions they are . iven their character by reference to the sun which thus plays with regard to space an analogous part to its action in regard to time Similarly like time space is infeired on the ground that without some such reality it would be impossible to explain our ideas and language Space also is a cause but only in the general sense of

¹ VS 1 ° 10-16 PBb. pp 66, 67 164 ff SP \$\frac{1}{2}\$ 17 80 TA \$^4\$ p 6 FB p 77 TK p 3 TSD \$\frac{1}{2}\$ 16 BP 43 44 K r., pp 1 1 8 TR pp 133 129 Luky p

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a part of the conditions necessary for any existence as is time with which it therefore is classed as part of the eight on nine general causes. That space is a reality which holds things in their place comparable to the power of gravitation regarded as an independent reality and not merely as an attribute of things, is certainly not the conception of any period of the Vaicesik's school

The distinction between space and time is made clear in the texts which expressly counter the suggestion that priority and posteriority in time and spice should be attributed to one and the same cause. The condition (upidit) which diversifies time is production or action, that which diversifies time is production or action, that which diversifies space is contact with objects occupying space (mierta). The old man may be near the young mu in space but prior in time. Or again the relations of time have a certain degree of constancy (uviata) which is denied to those of space, the true explanation of this doctrine can be seen from one of the examples which illustrate it, when one thing is piesent in time with reference to enother thing the latter is also present in time with reference to the former while a mountain which is at one time to the east of us may later be to the west. The i lea thus somewhat crudely expressed is clearly that there is a generic distinction between simultaneity in time and side by side relations in space though the example cannot be taken as happily framed or accurate.

From ether space is clearly distinguished in the

Above el viz \$ 4

² Chatterji, H adu Roul son, pp 57 61, 167, 168 The real view of the schools has more affinity with the modern doctrine of space and time as a rice put id and alones Pringle Pattison. The Idea of God. pp 26° 364.

³ XSII n 2 10

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system by the fact that the former has the specific quality of sound while the latter has no specific quality at all, ether produces one effect only sound, space is a general cause, ether has affinities to the atomic substances with which it forms the class of elemental substances (bhuta drawa) What, however is the precise ground on which this distinction is set up? The answer is not obvious and it has been suggested that in fact Kanada recepted only one reality variously called, according to the difference of its effects and conditions, ether time and space a view supported by the fact that though he establishes the difference of ether from the atomic substances self and mind he does not explain the difference between ether time, and space, nor differentiate the two from other substances But this is to ignore the clear meaning of the Sutra. It is equally unavailing to assert that space is really a force holding things in place in other which is really space against the driving power of time. The true explanation of the distinction doubt less hes in the inherited differentiation of other as the sul stratum of sound and the necessity of expressing by a new term the idea of space 2 which other was not well fitted to convey in view of its connexion with the con

the atomic substances

crete quality sound which brought it into analogy with Candrakanta on VS 11 2 12 Ti 15 15 the Samkhya view SS

^{. 12} 2 In NS n 1 22 d kdegs are found with the and ether as reneral causes. On the perceptib lity or infershility of time and space see NM , pp 136-41 Cankara Migra (v 2 20) calls space a non inl erent cause against PBh , p 20

CHAPTER IX

THE PHILOSOPHY OF SPIRIT

Soul Mind and Body

THE arguments for the existence of the self or soul (atman) are presented in the Vaicesika Sūtra 1 in a form to which nothing in substance is added later. The experience of the objects of sense he argues proves the existence of something other than the senses and their objects and expiration inspiration the closing and opening of the evelids life the movement of the mind the affection of the other senses-pleasure pain desire aversion and volition are the evidential signs of the self The necessity of resort to proof by a sign is due to the fact that in the Vaicesika view as opposed to that of the Nyay a there is no possibility of direct per ception of the self which must therefore be determined by inference in the form of exclusion of other possibility ties such as the attribution of consciousness to the body or the senses or the vital spirit or the mind or even the objects themselves

The claim that consciousness is a mere function of the body which was the Carvala view and must have been

^{1, 116,18 19 ° 4 1} v 1 f v 1 ° 2 will commentary, NS: 110: 112 ° ° 1 ° 8 N p p 758 19 cf PE p p 6 ° 70 o with NK TA pp 6 ° TB pp 62 5 7 TK pp 74 TS 417 BF 47 5 ° SP 45 178 181 183 183 183 Rang p 30 5 ° TR pp 119 ° Cf animatry of the Nigelska case in C N pp 798 100 and the Mindard case p; 401 Canhara on BS in 7 5 i commentary on SS in 70-2 v 199 (150) See also NM p 429 5

popular, to judge from the anxiety of the schools to refute it, is met in a variety of ways Consciousness must exist then in the elements which make up the body, but this is contrary to fact, if each part has consciousness, the result would be confusion, for there could be no agreement among the several consciousnesses to produce a united effect such as is actually seen in our conscionanesa Moreover if body had consciousness. why not the water-pot since it is composed of the same elements as body, and should equally well be conscious? If, again, consciousness were a property of matter, it, like colour, would endure, but we find none in a dead body even immediately after death, and even in life cases of unconsciousness occur How again can a man on this supposition recollect in age what he saw in youth, for his body is completely changed ? If it be answered by the fact of causal continuity, it is replied that in that case the son should know the experiences of his father Without memory too existing in something else than the body, how could a child perform such instinctive acts as that of sucking? Moreover, consciousness is essentially of an object which is not itself, the body is recognized as that which is used by that which belongs to something not itself. It would be absurd that it should be an object of its own property Moreover, the whole moral order rests on the difference of the self from the body and its persistence through many different bodies, and the denial of it would be direct impulse to immoral deeds

The same organs as little are adapted to be the seat of consciousness. Apart from the fact that they are in the ultimate issue matter and therefore, open to the same objections as are raised to the body their essence is to be instruments and an instrument implies an agent who uses it, a fact necessary to explain vision with two

eyes. Again if a sense organ be destroyed we still have the recollection of the thing experienced by its aid. We remember objects also though contact between them and the organs has ceased. We have also cooperation of senses whele ex-kypothesi would be impossible, as when on seeing a fruit we remember its flavour Still less is the vital spirit the solf for it is no more than the relation of the self to its insterial environment than the relation of the self to its material environment to an object, else there would be no memory after consciousness had been destroyed it; the destruction of the object. Nor has an object any sense of its own position of the pleasure it causes, nor does it move with intelligent purpose. Nor could there then be the consciousness which is admittedly experienced. I have seen the colour perceived the taste and am feeling the touch', which presumes a power of synthesis impossible in varied objects or in the sense organs.

But consciousness earinot reside in the mind unless that term be used to mean some reality which has cognition by many some instrument other than the senses in which case it amounts to what is in the Naña-Naiceaka called the self and the instrument is what is known in that system as the mind. The existence of an intermediary between self and the senses is proved by the fact that if there were direct relation, we should have simultaneous necessary of all kinds and equally simultaneous memory, and further both would always to accept some atomic substance to include and secure successive perception and recollection. Further the objects of inner sense our cognitions, feelings, and volutions, must be perceived by the self-ly means of an instrument which is must.

Nor, again, can there be accepted the doctrine that

cognition is a momentary self-cognizing existence as held by the Buddhists¹, this is contradicted by memory, and the idea that of two ideas related as cause and effect each has the power, though unconnected of conceiving itself as effect or cause as the case may be is purely absurd

Positively, then, we can infer from cognition as a property that it resides in the substance self Moreover. as from the motion of the chariot we infer the existence of an intelligent agent, so we infer such an agent for the body from its activity and cessation of activity which serve to attain the desirable and avoid the undesirable Breathing and winking lead us to infer an agent of from the healing of bodily wounds we infer an agent like the master who repairs his house from the action of the mind towards contact with sense organs apprehending desirable objects an agent must also be inferred the same result follows from combined perceptions and recollections the qualities of pleusure and pun, desire and aversion and effort must belong to a subject these qualities cannot belong either to the body or the sense organs, for the following reasons. They are always experienced along with the feeling of the self pleasure means nothing save for a self and so with volution they do not extend to the whole of the body or the organs pleasure or pain may be felt in one part only they do not just as long as their substrutum—all these states are evanescent, they are not perceptible by external senses like corporal qualities The existence of the self as distinct substance is also established by the fact that it is spoken of as I which is quite different from any

¹ Ny, Lc contains an interesting refuts on of the Buddhist suggestion of earthings adducing against that view the Sites of the burden hearer Cf Crikiars BS 11 2 °5 28 °98 2" 41 NVT p. 55 NVTP 19 50-40.

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other object, one man's body another can see but not his self. No scriptural proof is therefore essential for the demonstration of the existence of the self

But there is not one self only which by differentiation becomes many as on the Vedanta theory where ignorance causes the one Brahman to appear as many individuals ¹ This theory is guilty of the paralogism that it ascribes ignorance to that which is pure intelligence, or alterna tively it assumes ignorance in the individual souls which one into being only through ignorance. The plurality of selves 19 proved by the variety of experience and condition each self has its own series of experiences. through which it remains one while it has no knowledge of the experience of any other self. Nor is there any risk of the cessation of the world by the complete emmentation of all the selves for their number is infinite. They possess also individuality as follows from their number, and they are in dimension all pervading as is proved by the upward flaming of fire and the as is proved by the upward naming or me and the horizontal blowing of air. These are contrary to the property of gravity and can be explained only by the operation of the unseen principle (adista) inhering in the self the latter being all pervading. Again each in the self the latter being all pervading. Again each self is unproduced and eternal, the argument that being so it can never be released is rejected on the ground that emancipation can be obtained through dispassion arising from recognition of the evils inseparable from the objects of enjoyment in one who recognizes the eternal self The self also has the properties of conjunction and dis-junction since pleasure and other properties arise from the conjunction of the self and the mind and destruction

³ Candrakanta on VS m 2 19 21 thus interprets the Sutra Con trast SS : 149 64 PSPM pp SO 3 SSS vii 38 39 makes date

of such experiences must be brought about by disjunction. Accounts later than Pragasapuda add little to his outline the all pervading character? of the soul is also established by the more empiric argument that if atomic it could not feel pleasure or pain simultaneously in different parts of the body if of intermediate size it must either be larger or smaller than the body in which case it will be unable to occupy the body exactly as it does and should do if of the same size it will be too small for the body as it grows from birth onwards not to mention the difficulty of it changing in dimension from birth to birth. The objection to its all pervading clauseter that it should then I we all experience is unswered by the lite that the self has experience only by contact with mind.

Mind² thus plays a most important part it is through it that are mediated all the sense impressions from outersense which else would all be in immediate and eternal conjunction with every self and it explains the recollection of these impressions moreover it is the direction of these impressions moreover it is the direction of the properties of cognition teeling and volution and it explains our memory of them. It is the real ground of individuation for though eacl self like each mind is supposed to be distinguished by a peculiarity (tipsea) it is impossible to see any list inction other than that based on mind³. The mind must accompany the self in all its peregrinations through bodies as a condition of the definity of the latter and of its power to exercise in a new body such functions as

TSD p 18 Cf Cankara B5 : 2 34 6 178 1 2 18 7 13 7 13 7 13 7 12 MS 1 16 20 2° 26.54 4 60 3 with commentary PBh p 89 NK pp 90-3 55 p 55 0 5 NSara p 3 TR pp 124 1°5 PSPM pp 76 3 NM p 49 1 (2 vrs) BD p 58 NSara p 3 TR pp 124 1°5 PSPM pp 76 S NM p 49 1 (2 vrs) BD p 148 5 0 doubt f s will has part celet v

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¹ TSD p 13 Cf Cankara BS 1 ° 84 6

^{1 1}SD P 10 ... Year 1 23 vi 1 2 NS : 1 16 :: 9 20 00

sucking. There is but one mind to each self-only thus can we explain the fact that there are not many simulataneous cognitions and volutions the apparent simulataneity in such cases is always due to rapidity of motion of the mind just as we see in the whirling of a firebrand a circle of light not a series of separate points. The sight and taste perceptions of trevele are not simultaneous but in extremely rapid succession. A final argument against this primitive suggestion of paupsychism is given to meet the case of the movements of the parts of a snake on its being killed. These are due to the impact of the chopper the rapid motion of its mind or the entry into some part of it of a soul which has been liberated from its body.

¹ To i ^62ff Cafikara makes mind one only as subtle and 1 mited in size but in incons atent see Deussen lecture of xxx so SS iii 14 v 69 71 Prabhākara ti inks it atomic PSPM 1 77 Cf NSM pp 9 60 Raglunāti a (PT\ pp 10 15) den es its atom e size.

can never have contact with ether which is also all per vaiding. Sleep also, it is argued, would be impossible if mind were all per vaiding, but the reason given why it is possible on the Nyaya view is not convincing, since it involves the arotherary assumption that mind can in sleep shut itself off from the self in the vern styled purtati. If not pervading, the mind must be of intermediate magnitude, which would mean that it consisted of parts and was perishable, or of atomic size it must also possess motion and extreme velocity and the qualities of conjunction and disjunction which are seen in exercise at the leaving or entering a new body, and those of priority and posteriority common to all itomic substances. It is of course individual and as unmoduced eternal

There are obvious difficulties in this strange atomic substance of corpored (mustu) character which is invoked to explain the activity of mind in the modern ense of the term It is a minor point that Gautuma! did not class it as an organ of sense (indrigit) and that Vatsyayana is compelled to read its inclusion in this class into the Sutra, which in fact classes it only as an object of proof The argument of Vatsyayana that the mind was accepted as an organ in other systems and not being expressly stated not to be an organ by Gautama must be taken as one is sufficiently refuted by the retort of Dignaga " that the other organs which Vatsyayana mentions should not have been referred to if that principle were valid but the omission in Gautama is of no creat importance for the conception of the mind which if an organ, is one of a very peculiar kind. A more

^{1,19}

Most Log p S7 According to NBh p 16 mind diff rs from the rgans as being concerned with all objects as without specific quilty and num terial (abba t ha) but NV p 40 accept the first differentia only To cill it attention (Six Syste s p 548) is ather as slea ling.

serious objection is suggested by the raising of the question whether an instrument is needed to perceive cognitions feelings and volutions since they can be self conscious 1 This is answered by insistence on the fact that the agent the instrument and the object are three essentially different things which cannot be combined in one. The agent is something which is not urged on by something else, the instrument is a thing employed by an agent, the action does not exist when the instrument is already in readiness a view supported by the doctrine of the posteriority of effect to cause We must there fore, have a self, an instrument, and the cognition, feeling or volition which is an action in one sense in one sense an object The Prablish us view that on the occurrence of a cognition it becomes self luminous like a lamn and the soul becomes manufested as the substratum of and the notion of I in the cognition like the wick of the lamp is rejected on the _roun I that in the visual cogni This is a pot there is no idea of comizer or cognition and that when these do arise there is a direct mental cognition of the object as qualified by the corni tion and the cognizer, as I know the pot On the strength of this analysis as it seems is based the Nyaya view that the self is directly apprehended by mind in such a cognition as well as inferable while the strict Varcenka 2 view appears to be that in such a cognition we have no direct cognition of the self but merely ground for an inference though Cridharas admits the

^{&#}x27;NK p 96ff NV pp 66 71
2 NVT i 1 10 Laks pp 7 8 ASåra p 36 makes it inferable
only see NV pp 3i4 7 in \Bh p. 10 it is not percept ble

See Candrakania s exposition of NS 11 " (18 TP . p 119 of rate inference only so PBh p "0

^{*} VK p. 91 percept on a rest ried pp 21 91 so Kun arila (D) 101 against ISPM 11 75 50 Cf the Apparairs a NM 1 4°3

possibility of the Vedanta view of the self as knowing itself, and like Cankari Migra! upproximates to the Nyaya view. But both schools are agreed that mind is inferable only on the ground given above

This unhappy conception of a material atomic substance as an instrument in perception appears thus to have been largely due to the false desire to secure an instrumental cause as well as to the wish to explain the succession of impressions and memory and the imperfect character of both Mind is thus active in the whole field of our perception including the extraordinary perception which recognizes invariable connexion (mana lak ana) and in perfected sages it reaches still higher uses for by contact with their merit it enables them to see all reality even the self directly. It must be understood to be the instrument of thought of the reflection (managerea) of inference but this side of its activity is subordinated if not ignored in the schools On the other hand it serves obviously as a mode of connexion between matter and spirit for it intervenes between the material if imperceptible sense organs and the self and it may best be appreciated when compared with theories of psychophysical interaction which ascribe to the physical side much of the necessary conditions for remembrance

With the body the self stands in a temporary relation only for as will be seen the body serves only a passing purpose and arises from merit or dement of the self' Unblac the Vedanta and Simkhya the Nyaya and Vatgesika do not picture the self as ever recompanied

^{1 \}SU in 2 14 16

The argument that it has no magnit de (H whi Realism p 90) is untenable

^{* \}S m 2 64 78 m 44 45 \Bh \V m 1 19 \SU,\VSV

by a nucrocosm of the body in the shape of the subtle body, 1 it pisses from one frame to another with only the off the nund which as atomic is beyond perception and therefore cannot be seen leaving the body on death

and therefore cannot be seen leaving the body on death.
The self again is wholly different from the self of the Vedanta or Numarila for cognition is merely a quality manifesting itself through mind transiently and feeling and volution which on the Vedanta theory have no place are equally qualities. Of the qualities² of the self cognition has already been examined pleasure is defined as that which is felt as agreeable by all a definition amended to apply to individual tastes in its relation to the individual A more fundamental doctume asserts that it is what is desired for its own sake as in ultimate ain while pain is what is shunned for the same cause. Pam is positive not merely absence of pleasure and can co exist in the same subject with pressure that can be even in the same subject with regard to different objects though it would appear that so existence must really be swift succession. Pleasure, however is always closely accompanied by pain. Desire according to Pragastapada consists in seeking to obtain a thing not yet acquired for one s own sake or that of a sing now yet acquired nor one's own sake or that of another it may be directed to the supreme good freedom from pain or pleasure or to some object as a means to something else or it may aim at an action which can only be directed towards an object which is capable of attainment by human effort no one desires an action if the end is unattainable by man. Aversion

¹ Rejected also by Kumär in ÇV p 393 Cf SS v 103 Tle V ndhyaväs n of Kumär ia is clearly not İçvarakısına nor any true Samkhra writer

^{**} See PBh pp 2,9 63 SP \$\$39 43 94 8 TA p 13 TB pp 85
91 TK pp 18 19 TS \$\$66 9 BP 145 5° VS x 1 1 7 proves
16030 wand pannot to be cogul ton in any form of NM pp 4 C

which includes anger and similar emotions is directed either to pain itself or to an object whence it can spring As desire and aversion spring from pleasure and pair so they find expression in volution (prayetna) effort (utsaha). or action (kiti) which is the disposition of the self towards carrying out an object It is of two kinds, on the one hand it is activity (pravitte) generated by the desire to obtain what is pleasant on the other mactivity (nivitti) generated by the desire to avoid the painful but in a different sense it is the vital force (givana-yoni) which is the cause of expiration and inspiration but which unlike volition is not even perceived by mind 1 The classification as akin to volution is instructive it. could not be admitted as physical without introducing an then element into the self The cycle is completed by ment and dement which are produced by actions good or bad and themselves generate pleasure and pain they form together the unseen principle (advsta) which mould man s body but they ue not merely positive and negative demerit is produced not merely by omissions but by positive evil deeds (papa) 2

The last quality of the self is impression (similarin) a which is the result of original perceptions of every kind and is the explication of memory. It is impossible to refer the latter to the original impression as the cause since the impression is transient nor can the absence of the impression produce the result of this were the case as absence is one and the same we should not find the difference which we do observe between the power of

¹ TK ! BP 149 100 Cf on , and and mind NM p 499 ² VS v. 2 1 16 PBh pp °72 278 °80-2 SP 43 48, 103 104 TA p 13 TB p 85 TK p 19 TS 55 71 72 BP 101 4 NS4ra p 50 TP p 148.

[&]quot; PBh p "66 1A p 13 Sl §§ 4 10" TB p 80 Th p 19 18 § p, BI 188 Sec N 1 1. 1 13ff. VS 1x 2 6 NM p 2

with their disappearance action ends and with it birth and the sorrow consequent thereon In Kanada 1 the system is less simple the obtainment of supreme felicity is declared to be due to ment (dharma) but also to be due to the knowledge of the categories by means of similarity and dissimilarity, that knowledge being produced through special ment Again 2 he declares final release (molsa) to be in the separation of the self from the body without entering another body, in the absence of merit or demerit which would produce a subsequent embodiment. The process is more fully expressed by Pracastanada 3. the desire to obtain the release leads one to accours knowledge of the categories from a master this knowledge terminates ignorance hence love hate de, corresponding to the fault of the Nyaya are ex tm_mished thus no further ment or demerit can arise the old ment and dement are extinguished as they have produced their effects the subject remains free from desire or attachment to the body and mails his merit ceases having produced the joy of the contemplation of the self he is done with the body and every result of past activity, and rebirth is impossible. The knowledge of the truth thus is the real cause the ment only a con tributory but Kanada's words rather ascribe the origin of knowledge to ment and serve to remind us that the process is one of great complexity for a man is never free so long as he is not released from the effects of his deeds.

Supreme felicity, however is variously interpreted a The Ruddhest view finds it in the cossition of all know

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^{* 1 5 1 1 1 4 1} K. 11. 3 4 kir. 11. 60 12. 19 00 11

embodied. It is meoneevable that this should be un caused 1 for we realize the endless chain of cause and effect as in the series of seed and shoot, nor can there be a single cause whether the absolute Brahman as in the Vedanta or the nature of the Samkhya for the effects are various and so must be their causes. Nor can the cause be something visible for men universally offer sacrifice to attain herven and this must presume an intervening stage of ment so acquired since plainly the sacrifice cannot produce its distant effect without an intermediary. Nor does the desert reside in what is its fruit for that is apportioned to each individual and enjoyed by it The body of man therefore must be the fruit of previous ment or dement and there is no ground on which we can conceive a break in the series of embodiments. Confirmation may be found for belief in previous embodiment from the fact of justing as when a child sucks without teaching or more generally from memory of past buths 2 which seers enjoy and which exist in us as impulses and potentialities lying hid beneath our normal selves and explanant the infinite possibilities of our nature

Our deeds therefore leave ever their impressions behind and ment and dement regarded as our actions when their are performed and not in the more general sense in which they include impression's spring from impressions and gave birth to impressions again in in ending series. Man does not necessarily remain in the human state 'he max descend into lower bodies be

NS av I 22 with commentary

^{*} VSU v 2 18 v " 16 cf 18. 1 89

The distinction in H adu Palism, pp. 103 9 between impressions and merit and demerit is ingenious but out of larn our with tridi-

^{*\}Bh iv 1 55 cf VS iv 2.5 with commentary \\VT, p 441 On transmigration (pretyablea) cf \\S i 1 19 with \\Bi \\ i 1 10

a demzen of hell or rise to divine rank for the whole pantheon exists in name though the gods are now mere office holders whose post last no longer than the duration of their ment. The sentient universe then may justly be styled a society of selves in hierarchical order remembering always that there are worlds beyond our knowledge peopled by other selves of higher and lower range creatures of heavens and hells whose reality the school neither cun nor will deny. There is a strict regime of justice in this universe for each man reapsivity the help as sown.

Can we carry the doctrine further and claim that the environment of the selves is luilt up for the precise purpose of giving to each being its due meed of joy or suffering according to its deeds? There is no doubt ato the orthodox answer for we have seen it given by Pracastapada in his theory of creation reactions in the theory of creation. The virtue knowledge dispassion and powers of beings of all kinds are allotted to them by the god Brahman in strict accordance with their impressional potencies but he is not credited with actual cosmic creation of other than living beings for the creation of the worlds is assigned to the Supreme Lord himself It is impossible then to regard the universe as the creation of the ment of him who appears in it as Brahm in an I similarly the destruc tion of the universe is not due to the exhaustion of his merit but is the work of the Supreme Lord from period to period for the deliverance of the Brahman of the epoch and other wearie I living creatures. Did kanada hold the view that the unseen principle alone produced the periodic creation and destruction of the world? The obscurity of his Sutra leaves the matter open it may

pp 48, 49 ² Chatterji *H nd Peahson*, pp. 1° 1°

however, be remembered that Cankara' attacks the doctrine of atoms on the basis of their receiving their first motion from the unseen principle alone, but this may merely mean that he took advantage of the tague ness of the doctrine of the Vaigewiks. Nor, certainly, can it be deduced from the word Kalpa used of a cosmic ago that it is an imagining' of Brahmin. The ceaseless process of creation and destruction

carries with it important results. It negatives once and for all the idea of progress, there is nothing new under the sun, and, though sound is not eternal, the teaching of the Veda is eternal, and has been hunded down from age to age and from teacher to pupil. The importance of this has in the fact that the teachers of the Veda as Gautama assures us, were persons of authority, like those who laid down the science of medicine and spells-hardly reassuring society-and Kanada himself fully accepts the weight of the authoritativeness of the sacred tradition Nor were the sames mere men of ability; they had a direct intuitive vision of the final truths, they desired to benefit men they had the desire to communi cate their valuable knowledge 3 Thus all our knowledge 19 no more than the recognition of truths known long before us, and our conduct in like manner should accom modate itself to the rules which have been declared by the sages of old, the principles regulating castes and rules of life (turnagrama-dharma)

There can, therefore be no real attempt to place morality on a reasoned basis, ment and dement arise from observation of the rules luid down by sacred scripture, resting on the divine prompting according to

By it 2 11 17, on it 2 37 in fact he admits that the Vaiçesikas have the idea of a creator

^{*} Hindu Redism, p 172 It means 'arrangement

^{* 1}st , | 2, \S\ , p 2, v 2.10

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² p₁ 48, 43 ³ Chatterji H nd + Pealem pp 12 1 2

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^{&#}x27;Bo ii 2 11 17, on ii 2 37 in fact he admits that the Valgenkas have the idea of a creator

² Rind: Redism, p 172 It means 'arrangement 4 VSU, p 2 VSV, p 2, v 2 16

Praçastapada 1 and the later school and possibly even in Kanada's view A considerable part of meritorious actions is made up of ceremonial ritual such as ablutions in the Ganges and the offering of sacrifices and Kanadas2 rules of ceremonial have been twisted by his commen tators to sanction monstrous conduct, which doubtless never entered his mind 3 But the more serious defect in the whole scheme is its completely self regarding character, 4 whatever value morality may have for others and for society at large its true end is the profit of the individual whose advance in the scale of existence towards final liberation is thus furthered But, more than this morality in the sense of choice of any kind is imaginary it is not open to a man to advance himself by seeking to follow the law even for selfish motives his action is determined irrevocably by his former deeds possibly in long anterior births and his freedom which is the requisite of morality is an idle dream no less unreal because with singular inconsistency the thinkers of India resolutely shut their eyes to this fatal difficults in the path of the legitimacy for human life of the doctrine of retribution. To enunciate the due reward of actions as explaining mans lot in life asserts a moral principle only to lose it again by denying man's power to choose his path of action

Why however if the practice of good deeds raises usever in the scale of existence does not man 13 attriming the highest rank that of Brahman remun content in it for ever? Here again no obvious explanation can be given, how can be in the perfect wisdom he then has acquire demerit or lose his place? The only reply must be that the sun of some former birth comes to deprive

^{&#}x27; p ~ ' 18U vi 1 12 16

^{*} H of Real on, pp 1"7-St

hum of his high place so that all may realize that in earthly or heavenly pleasure there is no satisfaction Apparently even Brahman must be on the watch less others do better their work and win his place.

To escape this unending a process of troubled striving in which not even a god can find abiding joy it is necessary to turn to the knowledge of the self, as enjoined in the scriptures which demand meditation and reflection on the self. It is egoism (diendarra) which leads us to a false estimate of the things of hie, we see the whole only in its beauty, and are moved to cager devire and action 3 or we see its defects and shrink from it but if we realized the parts which make up every whole we would see that they are compounds all of the same elements which arouse no emotion in vs. We would realize also the absolute sameness of the selves and their independence of the bodies in which at present they continue to transmignite and our empirical existence would come to an end with all our we

To attain this end we have the aid of the seers of old whose lore is handed down in the schools of the day an ecessary propueduite as kanada elevity lays down is the performance of meritorious conduct. Thin only are we ripe to take up the first part of the course of instruction hearing (pravious) the commentum of truths from teachers. From it we proceed to the examination in the light of reasons for and against of the truths thus necepted on authority. It is not this stage that the philosophical expositions of Gautama and Kanada and the systems lead on their must be suffered to

¹ Nh. p. 6 2 An absolute first creation is assumed to be absured of NBh 1 1 19 in 1 27 PBh, p. 49 fra proof see BS if 1 31 6 with Culture

^{1 \}S ir 2, 2 Cf \Bh ir ... 1

examination. In an interesting passage Vatsyayana 1 asserts the characteristic of the News philosophy which gives it a claim to be more than a mere doctrine of the self like the Upanisads It uses investigation (antiksa) to examine all things which are known to us whether based on the senses or on the secret tradition. It must not be thought that it is meant that philosophy can override that tradition which Gautama and Kanada constantly refer to Philosophy is rather the reasoned exposition and demonstration of that which is known already from a source of eternal truth the Veda If hanada and his school deny a separate place to verbal testimony among the means of proof, that is only because it can be brought under inference since we believe testimony either because of the worth of him who bears at or the truth of the facts at reveals

But it is not enough thus to know the truths they must be realized in experience,2 which is produced by concentration (yoga samadhi) of our mind on the object of knowledge. Such an experience must have been prepared for by merit of an earlier existence or period of our life, and it may be helped by restraint (yimu) and observance of rules calculated to secure a due state of body and mind and the choice of a forest, cave, or sand lank for a place of meditation. But it presupposes the mental preparation ensured by the study of the and others bent on truth The result of this mental effort is the attainment of the actual perception by the a lept (ylogin) of the self by a special conjunction of the self and the mind in the self. He has also perception

^{*} NBh p 3

* NS, iv 2 35.50 of for details of loga Nata pp 28 59

* VS ix 1 11 15 NSata pp 37 271 ° 2, of VSV v ° 16 1 Eh
pp 281 282 NK, p 2*, NVT 1 fo NVIP 1p 379 5*

of the other substances-the atoms since time the ether and mind-and he percenes their motion and their qualities as well as the qualities of the soul by their inherence in their substrates. He will also have the power to withdraw the nand from the body and thus separate himself from his mortal frame like a snake from its worn out skin. All his former lives will come to him and he will realize how his self passed from body to body on death and reluth. He will realize also it is later made clear the ment and demonit accumulated by him through former deeds and he will be able to construct bodies suital le for the emboliment of their experience. In this way by actually experiencing the merit and demerit he will exhaust it and teach the stage of liberation in which there will be complete cessation of pain as a cessation of activity and aborth. There are however two stages of the vi ion of seers one appertuning to those who are complete masters of concentration with whom vision is ever present and the other which belongs to the less perfect visionary who needs to attain such insight the application of a definite set of concentration !

And here we must leave the master for the bounds of philosophy are clearly outpassed. It is a strange and incomprehensitle vision which the seer has before him in which the eternal structure of the world lies before him intermingled with the memory of the inhinte detail of onlies hives. Its objective, value, we may safely

¹ So VS, ix 1 13 may be t be taken Cf PP1 p 19 NL. p 193 SDBT 67 with NSU and USN 16 NS0ra pp. 3, 4 82 6, makes a 1 m on of logina according to having semididal or not

measure a recommendation agreement agreement of the login law ritid on of general treths, or item, as exiting in log-n lently from concrete rias. But it is not in the texts, and as only a "creter" in recent works like 185 is 1911 19 Natu Le gires to be gen in the

deny, since other mystics of India and distant lauds have presented us with a very different picture of the beatific visions attained by them when the mind has been divested of all its normal trappings in the hope that thus there will enter it truths which are denied to the strivings of intellect And one further criticism is mevitable the problem how man is to counteract the effects of former deeds which must bear fruit proves intractable to a reasonable solution. We are compelled in the normal theory of retribution to admit that no one life represents the whole of the potential ment or dement of man were it not so there would not be a long round of varied lives in animals man gods and denizens or hell but there would be definite progress in one way or another. It is impossible then to admit that the one life in which enlightenment is attained can extinguish all the prior ment and dement and it is necessary to conjure up new lives of a magic sort in which the seer may experienc in his proper self ere final emancipation the ment and demont of his past Thus room is made for the introduction at a moment which should be sullime of an element of vulgar than maturgy which is in no wise excused by the fact that it can claim the august authority of the Upunsads and of the Vedanta itself

When then life finally ceases what is left 1 The schools reply The utter annihilation of pain ! and the answer is true, but at the cost of the complete annihila tion of all that we were or sought to be What is the condition of a self which has corsed to be in relation with the transient and therefore can have neither con sciousness feeling or volition is a problem which the

state of somadh an indeterm nate perception of the whole expanse f real ty at one glance Cf NM pp. 102 8 1 NS 1 1 22 NK p 6, TB p 91; Padartharatnan all pp 42-51

schools make no effort to solve nor is their wisdom in silence doubtful 1

The final severance of the self and the body is the um also of the Samkhya and Yoga schools, but there is distinction in the conception which either school has regarding the severance of the self and the body If. the Nyaya 2 argues, the body is connected with soul merely in order to enable the latter to realize its differ ence from matter, and then to obtain permanent separa tion from it this and cannot be deamed to be accomplished for the same relation might easily occur even after the release of the soul mere knowledge of the distinction is not enough to produce final severance there must be a complete exhaustion of desert with which the possibility of revival of the connexion between self and body for ever disappears. Nor can the Ayaya' permit any breach through the intervention of God, in the series of fruition of mortal action. It we seem not to see the fruition of man's deeds jet we cannot invoke the causality of God, for without action no fruition is ever possible and we must assume that ultimately all fruition rosulta from mun a action alone t

¹ Nates, pp. 33-41 pronounces in favour of text Lappaness in red Nil pp. 30 f. N. [1.8-91 PolM p. 81 The Nylya of 859 v. 44-5 protests against the Nates-take ideal (v. 36) of an existence with out happaness like a stone and demands constant pleasure without objects of some protein or AVT p. f. NYP f. NYP [p. 4] N. where the ref rence is 16 NN v. 44 rather than as taken in the C. C. Y. My. pl. 207 ff.

^{2 \}S iii 2. 73-8. The \amkhya retorts by rejecting \$1 e \yaya view SS v 74, 74.

¹ No to 1 1) 21 the realering in SBH was 11. in quite let trensible in asserting God's intersente in cf. p. 266, p. 1

⁴ The means t wards merit in 1Bh pp 2 2 2 3 are e-unmonplaces of Indian assecticism and need not be referred with Falley in (p. 3.) to NS 11 80 or the B 11D lat decrease.

CHAPTER X

THE EXISTENCE AND NATURE OF GOD

1 The Theism of the System

THE Avaya Vaicesika in the syncretist texts 1 is frankly theistic those which follow the tradition of the Vaicevik and adopt its order of exposition, find place for the con ception of God under the category of substance as one great subdivision of the self with which on their theory God has eight qualities in common the five common to all boings number as one dimension is all pervading individuality, conjunction and disjunction which are necessary in creation and cognition, desire and action But they admit that his cognition differs essentially from that of man in that it is eternal universal and ab olute while that of man is transient particular and relative On the other hand the Nyaya tradition as seen in the Tarkabhasa not being confined within the strict system of cate ories of the Vaicevika is free to treat God as a being of quite exceptional character not to be re_arded as in any sense on a par with the hum in soul

It is of interest also that there is clear evidence in the fourteenth century of the very definitely religious tinge of the votaries who professed one or other of the systems Rajaçekhara, in his Suddarçan eximaccayat expressly applies the term Yoga to the Nyaya and makes the followers of the Yangeuka also in their religious aspect

⁷ Th p 4 T8, § 17

⁷ vv 94 118 1°9-31 Suali Ir pp 127 ff

similar to those of the Nyaya, the only difference be tween the two on his view is that the adherents of the Nyaya are called Çan is, those of the Vaiçesika Paçu patas He described the ascetic practices of these secturing which equate them to the ordinary votaries of Giva His evidence is supported by that of Gunaratin in his commentary on Haribhadra's Saddareanasamue in and commentary on marion areas because the cape 1 of slightly later date though it is possible that he drives from the same source as Rajacekhara he gives four main divisions of the My 13a Varceuka sectaries the Carvas Pagupat is Mihavratadharas and Kalumuk has with virious subdivisions including the Bharatus who are incutioned also by Rajacekhara and whose characteristic trait was the fact that they accepted a min of any caste provided he was a devotee of Çira Jin datta in his Vitekardas i about the middle of the Jin datta in his i relativistate about the induce of the thirteenth century states that the texts of the Nyapa and Varcsak's were used in the Caiva system and that these systems had Cava for their datt. It is impossible to discredit the value of this textmony which is the more valuable in that the normal source whence to seek the inspiration of the Caiva systems is the Samkhya which has admittedly close relations with the develop which has admittedly elose relations with the development of Cana philosophy. The antiquity of the connection is attested by the tradition which is preserved by nexion is attested by the transford which is preserved by Pragastapada's that it was Civa in the shape of an oxl who reveiled to Kanada the Vaigesika system. Pra who rescued to Administ the varieties system. Pra-custapada also in his exposition of creation uses as the erstapades also in his exposition of creation uses as the name of the creator Mahayara, a choice in which we can hardly fail to see a dehicrate preference, for the view that the true God is Giva. Of Ud byotakara we have the express evidence of the Nyayaratetiski that he

¹ pp. 43 ff 2 s 303. Cf. SSS vi 13 19 19 19 19 7 Francis used.

[»]b 2.0

was a Pacupata, and it is interesting to note that in his Nyāy warttika¹ he adopts theism and quotes a verse which is given by Madhava in the Sarvadarquiasam graha 2 as one in which the supporters of the Caiva system maintain the existence of God Theism in the Nyaya is shown to be recognized by \atsixian a not so much because he declares that the self sees all feels all knows all and perceives all a description which would hardly be true if he did not in the term self include God as the self pur excellence as because of his defence of the activity of God in the fruition of deeds An express proof of the connexion of Nyava with Carvism is seen in Bhasarvaina's Avavasara * which may date before Uday and and in which it is expressly said that final release is produced in the Cary system, and stress is laid on the necessity of the practice of the recognized kinds of mental concentration which at last will yield the direct vision of Mahegyara Similarly Udayana 5 who is the classical exponent of the theism of the two systems treats the God whom he demonstrates as equivalent to Civa

Can we therefore assert that the silence of kanada and Guttama unless in the latter case we believe that the self for him included God means that the authors of the Nya, as and Vargesike Sutrus were not believers in God? It has been continued not only that this is the case "but that the atheism of the schools was borrowed from the Sunkhya but for this theory there is no positive evidence forthcoming, and it must be judged merely on the probabilities of the case. On the whole there is so little sign of Sankhya affinity that it would be as easy to attribute the atheism of the systems to the

Garbe Samkhya p. 119 Phil, of Ana, Ind a p 23, He ignores the

influence of the Purva Mimansa whose importance as discrediting the idea of God must not be underestimated A different explanation is suggested by the later and modern Indian doctime that the systems are not to be deemed as fundamentally opposed but as aspects or standpoints whence so much of truth is revealed as in w be adapted to the minds which are to receive it. In this sense the doctrine is pressed too far it is the result of a philosophic mind reviewing from the stundpoint of " wide knowledge of the systems their points of community and seekme to find a communentive formula to fuse them in one. This can be accomplished by treating the Samkhya as a further advance in analysis on the Nyaya Vaigesika and then finding in the Vedanta the final truth But to convert a theory of reconculation into soba history is unwise and unconvincing

On the other hand the actual condition of the two Sutras provides ground for the belief that they cannot be deemed to cover the whole held. Aeither guess the impression of a well thought-out and ordere! whole regardapade, indeed had to restate the vaigestabede, indeed had to restate the vaigestabeder it could be deemed a systemate treative in any sense and the Nyaya is so predominantly dialactical in interest that its excursions into metaphysics have an air of dragation from the work in hand which forbits us to assume that silence on any topic means its evclusion. One thing at least is certain if we assume that the harded the theory to stand by itself without the introduction of a creator we fall into the difficulties messed relentless) by Canham who assumes

Max Miller Six Seriems p avit. Clatterjt II ndu Prodom pp 6 17 (in genaths Jih NL pp 6-8 Müller's denial (pp 2°6-81) of Jamit is atte sui is an error. PSI M., pp. 6-8

^{*}The comm find references to God in VS. i 1 2 (= x. 2.)
vi 1 1-4 is 1 12, 1/ as suther of the leds, of names, le shore
ch v i 1 kddegen (p. 3.4) fav urs, will out proving at leism

bused on the regular alternation of day and night, the impossibility of the birth of a Brihman at the outset of creation without one of that caste to be his father the impossibility of the injugation of lugitage or traditional arts, and the impossibility of exsertion in the process of the ripening of the fruits of action. Merit he replies, may produce miraculous birth God may teach language and the arts assuming both the preceptors and the pupils forms in deep sleep the funtion of acts is suspended and still more so at the distriction of the world, a view which ismoses the difficulty of the process of time. Positively too the decay of customs morals and learning show how the Veda gradually due out to be invived at a new creation.

Thirdly, it is shown that no means of proof yields results opposed to the reality of God. He is not perceived it are reported he is not perceived it are reported he is not perceived in the reported he is not perceived and inference is trustworthy its refutation ilways rests on inference who shows that it cannot ilways rests on inference who shows that it cannot ledge of the significance of words and tills nothing of evistence and thus cannot negate God. Verbal testimony declares his tering when it seems to negate it it merely denies him attributes. The argument from presumption If God were nominement would be not cause us to act without laying down impunctions? whence the useless ness of the Verla and the non-existing therefore of its author are deduced is invalid for we must have directions for our actions, and it and case presumption and monaporal nason are not vall linears of proof

Fourthly the Minan's argument that even if God crists, he cannot be the source of right knowledge for as since, his own knowledge lacks the essential character istic of true knowledge, the apprehension of objects

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hitherto unknown is met by a demal of this definition of knowledge, night knowledge is an independent impression in accord with reality, and its truth does not depend on novelty. Finally, with some repetition direct proofs for the

existence of God are adduced. These are the nature of effects the combinations of atoms in creation the support and destruction of the world the existence of traditional arts, the authoritativeness of the Veda which produces right knowledge in us and presupposes a being who imparted this virtue its existence which implies maker its consisting of sentences like books made by man and last the peculiar nature of number duality and subsequent numbers as we have seen have no absolute existence but depend on the relating power of the intellect and thus at creation it must have been God whose concept of duality produced the binary atom which ultimately starts the formation of the world The first five of these arguments however may be inter preted of scripture as referring to the purport of words which is God their explanation due to God their preservation through him their significance in words denoting God and the aftix of the imperative which alludes in commands of scripture to the expression of the will of God

Lewing aside these needless exercises of ingenuity the argument for the existence of God rests on the fact that creation needs in agent. The argument runs 'Every effect must have an intelligent agent the universe is an effect therefore it must have an intelligent agent. This is the doctrine expressed by Quidhara' in commenting on Praga-tapadas account of creation in

which the activity of a creator is assumed, but not expressly proved, and in the course of it he deals with some of the obvious objections to the theory. It is objected that God, having no unsatisfied desires, cannot possess the necessary impetus to action to which the reply is that he acts for the benefit of other selves, which is a sufficient if not a selfish motive. The further obrection that in that case he should create pleasure alone in the world is met by the retort that in his action God is moved by the necessity of conforming to the tendencies of beings conditioned by their former actions and that pain is no unmixed evil since it leads beings to realize the vanity of mundane existence. Nor is it a disproof of the simply of minimum existence. For the disproof of this independent divinity that in creation he should award beings lots according to their deserts, which is the due mode for a master to treat his servants. The minor objection to creation that the knowledge of words would be impossible is incidentally refuted by the quaint argument that it is the pun of tirth which causes ordinary beings to lose their memory while the mindborn sons of Brahman suffer no such pun and from their past memory are able to revise at once the consentions of language

More serious is the argument that the syllogism additional does not prove the result. A jar is certainly produced by the potter but in addition to the knowledge of his material his desire and action he must have a lody, in order to Iring about the result and therefore God must have a lody, which is contrary to our observation. The answer to this is that mero possession of a lody cannot be the real point in question, for eleanman while in slesp would be an agent, it must rather be the character of being an operator of instruments sufficient to Iring about a result and an intendolled bying can possess this power as in the case of the soil

which moves by its volition the body. True the body exists and belongs to the soul, but it is the soul which impels, and God has the atoms to impel in lieu of the body which the soul has as its object. Nor is there any real difficulty in understanding how he can possess intelligence, desire and volition as eternal, whence his power of creation may be derived On the other hand, it is uiged that the souls and the atoms together can account for the whole of creation. To this Cridhara replies that this cannot be since until creation has operated, the souls are not united with sense organs through which alone they can possess cognitions If it is replied that the soul has an inherent intelligence which is all-pervading the answer is that this is contrary to experience which shows that the soul on birth in a body finds all things new and that therefore it does not continuously function so that we are com pelled to resort to illegitimate hypotheses if we depart from the sound view that a soul needs sense organs to be conscious It follows therefore, that creation requires the operation of an active intelligence which is that of God The unity of God follows from the fact that there is no ground to accept a multiplicity of equally omniscient beings to perform the work of creation and further such a multiplicity would by interference rather hinder than further the result

The qualities of God follow from his complete knowledge, he eximpt be ignorant, nor have attachment of aversion from objects, hence he cannot have any activity, or acquir, merit or dement, or their consequences pleasure and pain. Nor can he have impressions since all his knowledge is immediate and eternal. This culture that the control of the control of the control of the concommentation however leaves one objuous difficulty.

¹ NK p 58, SSS vi 14 He is all pervading and has individuality conjunction and disminction

that the universe is a product can be assailed, we can adduce only individual cases of products, to assert that natures only individual cases of products, to assert that the whole of which they are parts must be a product is a paralogism. Nor indeed can we prove that every thing is produced, even among ordinary things for our sphere of knowledge is so everly limited. Again the atoms other, time and space souls and minds are admittedly eternal and uncreated, therefore the argument that the universe must have a creator is inconsistent and illogical Nor indeed is it legitimate to call the world a product and argue thence to the cause unless the cause can be and argue tinnee to the cause unless the cause can be proved independently. Moreover, Gold as possessing will must have device and pleasure and pum and so is no more than glorified man. In truth it is plain that a creator who is only powerful to create and destroy at intervals in strict accordance with merit and dement and who exercises no influence at all on the fates of mankind is a strange anomaly

But, whatever the difficulties in the theory it is plain that it was impossible for the schools to remain without it for they could not otherwise concerve the beginning and end of the world in which they believed as an estab lished traditional doctrine and which it must be remembered was especially connected with Qiva as the destroyer and the Brahmanical deity pur excellence Moreover even had they been willing to ignore this dogma they would have been in no better case, for, on their theory of eternal independent substances there is no ground of connexion between self and body, and an intermediary must be found. The Jam view of self moving atoms is more simple in one sense but it is less philosophical reflecting as it does nothing but a primi-tive animism. The intervention of God as the first origin of motion was thus natural and it obviously adapted itself well to the traditional cosmogony But,

even so one difficulty remains obvious, how comes it that all the souls lose their activity at the time of dissolution and regain it at the coming into being of the world? Such a preconcerved harmony is inexplicable unless a direct intervention of God is imagined, consisting at least in postponing while not diverting the truition of action—as in deep sleep but curiously enough Cridhara shrinks from drawing this obvious and indeed necessary conclusion While the Vedanta suppresses the reality of the individual in the absolute and the Sainkhya maists on the existence only of mutually unconnected individuals in both cases denying any possibility of system in the universe the Nyaya Vaiceska produces but in a mechanical and external form a certain measure of unity All three however agree in denving any real value to human experience and cudeavour and stand in fundamental contrast with the tendency of recent thought whether theistic or atheistic to view the process of the universe as real and to insist on the fact not of the independence and self sufficiency of the individual but of the necessity of the communion of selves as the basis of their reality 3

On a lower plane of popular thought stands the conception of the Nyayasura* reflected in the Survividdhandasumgrida' in which Çiva appears as the omiseent creator by whose grace the reward of devotion.

¹ c. g G H Howison The Lim is of Eroli on pp. \$2.2ff Hastinga Rashdall, Theory of Good and Eril, if 239 ff

Rashdall, Tatory of Good and Lttl, it 255 it

Contrast Pringle Patt son, Heydianus and Personal ty pp. 22 aff., and The Idea of Cod, pp. 385 ff. In B. Bosanquet s labe and Person of the India dyal as in F H Bradley's Appearance and Recory the India vid all is overwiselimed in the absolute as in Calikars.

[·] pp. 34 40, 41

y 10 31 5 (Names La), vi 10-21, 40-4 (Nyava).

^{*****}

the worshipper obtains release in the form of eternal pleasurable consciousness. This in the Nyāya and Vaiceaka we find, as in the Vedanta of Ramanuja, an effort to adapt philosophy to meet the cravings of

popular theology

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